



Repair Manual

Beetle 2012 ➤ , CC 2010 ➤ ,
Eos 2006 ➤ , GTI 2009 ➤ , Golf 2009 ➤ ,
Jetta 2011 ➤ , Passat CC 2009 ➤ ,
Phaeton 2003 ➤ , Tiguan 2008 ➤ ,
Touareg 2010 ➤

Wheel and Tire Guide

Edition 07.2011



List of Workshop Manual Repair Groups

Repair Group

44 - Wheels, Tires, Wheel Alignment



Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.



Contents

44 - Wheels, Tires, Wheel Alignment	1
1 General Information	1
1.1 Wheels and Tires	1
1.2 Legal and Technical Requirements for Retrofitting Wheel and Tire Combinations	2
1.3 Documents and Designations	4
1.4 Tire Wear and Performance	7
1.5 Tires, Rolling Noises	17
1.6 Wheel and Tire Vibration	20
1.7 Vehicle Pulls to One Side	29
1.8 Tire Damage	33
1.9 Tires with Emergency Running Characteristics	40
1.10 Rolling Resistance Tires	43
1.11 Disc Wheels	44
1.12 Wheels, Mounting	51
1.13 Wheel Repair Kit	54
1.14 Spare Tires and Emergency Wheels	54
1.15 Recommended Summer Tires	55
1.16 Recommended All Season Tires	67
1.17 Recommended Winter Tires	72
2 Description and Operation	79
2.1 Side Wall Lettering	79
2.2 Tire Lettering Explanation	80
2.3 Tires, Speed Ratings	82
2.4 Cracking	83
2.5 Tires, Storing	83
2.6 Tires, Aging	84
2.7 Tire Sizes, AWD Vehicles	85
2.8 Winter Tires	85
2.9 Winter Tires with Speed Rating V	86
2.10 Winter Tires, Extra Load, Speed Rating V	87
2.11 Winter Tires, Maximum Speeds for V and Extra Load	87
2.12 Tires, Reinforced, Extra Load	88
2.13 Snow Chains	89
3 Specifications	90
3.1 Golf, from MY 2009	90
3.2 Golf GTI, from MY 2010	113
3.3 Golf R, from MY 10	130
3.4 Jetta Wagon, from MY 2010	140
3.5 Jetta, from MY 2006	167
3.6 Jetta, from MY 11	202
3.7 Beetle from MY 12	217
3.8 New Beetle Cabriolet, from MY 2003	223
3.9 Tiguan, from MY 2008	239
3.10 Eos, from MY 2006	245
3.11 Passat CC, from MY 2009	258
3.12 Phaeton, from MY 2003	266
3.13 Touareg, from MY 2010	280
3.14 Touareg Hybrid, from MY 11	286
4 Special Tools	291





44 – Wheels, Tires, Wheel Alignment

1 General Information

⇒ [“1.1 Wheels and Tires”, page 1](#)

⇒ [“1.2 Legal and Technical Requirements for Retrofitting Wheel and Tire Combinations”, page 2](#)

⇒ [“1.3 Documents and Designations”, page 4](#)

⇒ [“1.4 Tire Wear and Performance”, page 7](#)

⇒ [“1.5 Tires, Rolling Noises”, page 17](#)

⇒ [“1.6 Wheel and Tire Vibration”, page 20](#)

⇒ [“1.7 Vehicle Pulls to One Side”, page 29](#)

⇒ [“1.8 Tire Damage”, page 33](#)

⇒ [“1.9 Tires with Emergency Running Characteristics”, page 40](#)

⇒ [“1.10 Rolling Resistance Tires”, page 43](#)

⇒ [“1.11 Disc Wheels”, page 44](#)

⇒ [“1.12 Wheels, Mounting”, page 51](#)

⇒ [“1.13 Wheel Repair Kit”, page 54](#)

⇒ [“1.14 Spare Tires and Emergency Wheels”, page 54](#)

⇒ [“1.15 Recommended Summer Tires”, page 55](#)

⇒ [“1.16 Recommended All Season Tires”, page 67](#)

⇒ [“1.17 Recommended Winter Tires”, page 72](#)

1.1 Wheels and Tires

This guide provides you with important information in the event of tire damage or concerns.

This chapter contains general information on tires and wheels.

Wheels are high-tech products which have been optimally matched to the operating conditions of modern vehicles.

As for all technically highly developed products, careful handling, care and maintenance are required for tires as well. Only then is the safety, performance and driving comfort guaranteed for the entire service life of the tire.

The tires are subject to a process of constant further development. As a result of modern construction techniques, finishing processes and constant quality checks, high-quality tires are produced. All tires recommended by VW have been tested by technical development and matched to the respective vehicle type in cooperation with the tire manufacturers.

When replacing tires, mounting recommended tire brands is always recommended.

Vehicle safety always has the highest priority, with regard to the various operating conditions, such as;

- Different speed ranges.
- Winter and summer use.
- Wet and dry roads.

An optimal compromise must be found to ensure driver safety.



Every tire faces many different types of stress over distance and time. Therefore, it is important that the basic requirements for optimal use of tires are fulfilled.

The correct adjustment of the axle geometry while performing a vehicle alignment is an important requirement for an optimal service life of the tire. Therefore, the adjustment of the axle geometry must lie within the specified tolerance range.

Information for vehicle alignment, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .



Note

There are many causes for tire damage and complaints. Therefore, it is very important to recognize whether the complaint arises from the tires or from other components.

The running characteristics of the tire change in the course of normal wear. Rolling noises and vibrations can result from this. These are not damage in the sense of tire defects, but rather symptoms resulting from use. These can be corrected, at least partially, by specific measures. In certain cases, rolling noise cannot be completely eliminated.

Special Models

Special models are only partially included in the approval certificate tables. The retrofitting possibility for these vehicles depends on the motorization of the respective base model.

1.2 Legal and Technical Requirements for Retrofitting Wheel and Tire Combinations

⇒ ["1.2.1 Legal Requirements, Retrofitting Wheel and Tire Combinations", page 2](#)

⇒ ["1.2.2 Technical Requirements, Retrofitting Wheel and Tire Combinations", page 3](#)

⇒ ["1.2.3 Additional Wheel Housing Enlargement, FLAPS", page 4](#)

⇒ ["1.2.4 80 Series Tires", page 4](#)

1.2.1 Legal Requirements, Retrofitting Wheel and Tire Combinations

The manufacturer is granted general type approval for the whole vehicle including all parts and for specific retrofitting (general type approval according to 20 StVZO (Motor Vehicle Construction and Use Regulations or EU type approval).

Retrofitting to wheels and tires can only be made under certain circumstances. The following points must be taken into consideration:

- ◆ If the wheel and tire sizes along with the load index and speed symbol are contained in the general type approval or EU type approval, then this tire/wheel combination can be mounted on the vehicle. Refer to
⇒ ["1.3.2 Certificate of Conformity", page 5](#) .



Note

It is not necessary to install the wheel/tire combination specified in the registration certification Part I (vehicle registration). All combinations in the general type approval or EU type approval can be mounted on the vehicle. Refer to [⇒ "1.3.2 Certificate of Conformity", page 5](#).

- ◆ There is no general type approval according to 22 StVZO for the retrofittings recommended by VOLKSWAGEN, AG (see approval certificate).
- ◆ If the wheels and/or tires are not contained in the general type approval or EU type approval, then vehicle cannot be retrofitted according to the StVZO specifications.



Note

These statements refer to legal requirements in the European Union. No claims are made as to their completeness. Other legal requirements apply outside the European Union.

The tables of the approval certificate show the wheel and tire combinations for VW vehicles released by VOLKSWAGEN AG and recommended by the Test Laboratory for Vehicle Technology at the TÜV NORD STRASSENVERKEHR GMBH (German Technical Inspectorate) and the conditions to be taken into account. The use of original disc wheels on a vehicle to which they have not been assigned is not permissible.

The possible retrofittings shown here are combinations which meet VOLKSWAGEN AG's requirements for handling and road safety. They are the results of practical tests and for this reason, VOLKSWAGEN AG recommends them.



Note

Observe the information regarding new vehicle certification documents since October 1, 2005. Refer to [⇒ "1.3.1 New Vehicle Registration Documents Since October 1, 2005", page 4](#).

1.2.2 Technical Requirements, Retrofitting Wheel and Tire Combinations

- The wheel and tire combinations or retrofittings listed in the individual vehicle tables refer exclusively to Volkswagen original disc wheels.
- Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.
- Tubeless radial tires may only be used with stepped rims with a bead retaining contour, e.g. a round hump.
- Run-flat tires (reinforced sidewall) may only be used on disc wheels with extended hump and vehicles with a tire pressure monitoring system. Refer to [⇒ "1.9.3 Installing/Conditions for Using Run-Flat Tires", page 42](#).
- The correct tire inflation pressure values must be observed when the specified wheel and tire combinations are used. The tire inflation pressure values for summer tires are shown on



the sticker on the inside of the fuel tank flap or in the individual vehicle tables.

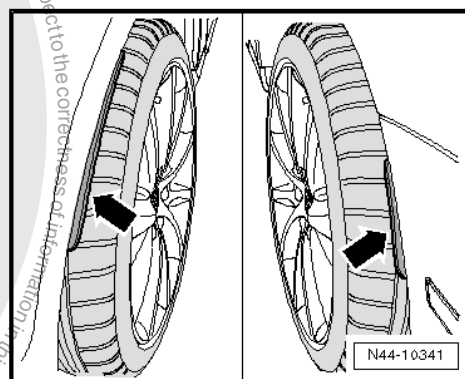
- Sufficient clearance between the wheels and tires and the wheel housing, suspension and brake components is ensured if the instructions and conditions specified in the approval certificate are observed under all operating conditions.
- If not otherwise specified, snow chains may be mounted only on the drive wheels. Only the front wheels on all wheel drive vehicles and also the back wheels on the Touareg are equipped with snow chains.

1.2.3 Additional Wheel Housing Enlargement, FLAPS

On some vehicles with certain wheel/tire combinations, wheel housing enlargements (FLAPS) must be attached on the fenders or bumper for technical reasons -arrows-.

Please check whether FLAPS must be installed.

The necessary wheel/tire combination information can be found in the overview table for the respective vehicle.



1.2.4 80 Series Tires

Tires of the "80" series (e.g. 145/80 R 13 74S) will replace the "82" series (e.g. 145/82 R 13 74S). All tires of the "82" series may be replaced by tires of the "80" series without any entry in the registration documents.

For this, the tires of the "80" series require to have the same section width, tire design (diagonal or radial ply tires), and the same or a higher load-carrying capacity characteristic number.

The "80" and "82" series tires may only be used if they are entered in the vehicle registration documents.

1.3 Documents and Designations

⇒ ["1.3.1 New Vehicle Registration Documents Since October 1, 2005", page 4](#)

⇒ ["1.3.2 Certificate of Conformity", page 5](#)

⇒ ["1.3.3 EU Type Approval Number, Sales Type and Sales or Trade Name", page 6](#)

1.3.1 New Vehicle Registration Documents Since October 1, 2005

The implementation of EU guideline 1999/37/EG "Vehicle Registration Documents" in national legislation and legal data protection requirements have made the introduction of new, fraud resistant registration documents necessary.

Since 01.10.2005, the new documents are issued by the authorities in the case of new registrations, change of owner, entry of technical changes and all other changes.

The new registration documents consist of:

- ◆ The registration certificate part I, which replaces the vehicle registration.



- ◆ The registration certificate part II that supersedes the vehicle title.

Registration Certificate Part I (Vehicle Registration)

- ◆ Contains all technical vehicle data that must be present to register a vehicle in Europe but only a standard approved wheel/tire combination is specified.
- ◆ Has the EU-wide alphanumeric codes allocated to the technical data so that the German registration document can be converted without problems in the foreign countries of the EU into the registration document required there.
- ◆ Contains a field to document the temporary or final decommissioning of the vehicle and is no longer drawn in the case of a temporary or final decommissioning.

Registration Certificate Part II (Vehicle Title)

- ◆ Contains information that the bearer of the registration certificate is not declared the owner.
- ◆ Only contains the current and, if available, last vehicle owner, the actual number of previous owners is indicated numerically.
- ◆ Only contains a small portion of the technical vehicle data.
- ◆ Does not document temporary vehicle decommissioning. In the future, the vehicle and body type listed under digit 1 in the old vehicle documentation will no longer exist. It is replaced in the new documents with EU standardized vehicle classes with body type.

The introduction of the new registration documents results in hardly any changes for the driver.

As with the old vehicle registration the registration certificate part I (vehicle registration) should be kept in the vehicle and presented to responsible persons upon request.

It is not necessary to install the wheel/tire combination specified in the registration certification Part I (vehicle registration). All combinations approved according to the vehicle general type approval or EU type approval may be used. Refer to
⇒ "1.3.2 Certificate of Conformity", page 5

The permissibility of a wheel/tire combination that deviates from the vehicle general type approval or EU type approval must be verified with an entry in the registration certificate part I (vehicle registration), an installation certificate due to a parts certificate or a general type approval for the wheel/tire combination.

1.3.2 Certificate of Conformity

The vehicle manufacturer must request an EU type approval for all passenger vehicles (vehicle class M1).

A certificate of conformity is produced based on this type approval.

This document confirms that the vehicle conforms to the EU operating license and is registered in every EU country without the need for individual approval.

The issuing applies to all vehicles that were produced in accordance with the EU operating license.

These vehicles have an EU type plate (black sticker) in the driver door area or in the engine compartment on older vehicles.

The certificate of conformity has the same importance as the operating license, so the original should not be kept in the vehicle.

The certificate of conformity contains the EU type approval number and detailed technical information about the vehicle such as



the emissions category and all permitted wheel/tire combinations.

Refer to

⇒ ["1.3.3 EU Type Approval Number, Sales Type and Sales or Trade Name", page 6](#) .

1.3.3 EU Type Approval Number, Sales Type and Sales or Trade Name

Since 01/01/1998, all passenger vehicles licensed for road use within the European Union must possess type approval according to EU guidelines . Vehicles licensed for road use with single-vehicle approval according to 21 StVZO in Germany are excepted.

Therefore, the same guidelines apply to all automobile manufacturers. Consequently, international trade within the EU has been simplified.

The certificate of conformity contains the EU type approval number and detailed technical information about the vehicle such as the emissions category and all permitted wheel/tire combinations.

Refer to ⇒ ["1.3.2 Certificate of Conformity", page 5](#) .

EU Type Approval Number (Type Approval)	Sales Type	Sales/Trade Designation
5Z	5Z	Fox 2006 ➤
6R	6R	Polo 2010 ➤
1K	5K	Golf 2009 ➤
1K	517	Golf Convertible from MY 12
16	162	Jetta 2011 ➤
1KM	AJ5	Golf wagon 2010 ➤
1KP	521	Golf Plus 2009 ➤
1T	1T	Touran from 2003; Cross Touran from 2008
16	5C1	Beetle from MY 12
13	137	Scirocco from MY 2009
1F	1F	Eos 2006 ➤
3C	362	Passat Sedan from MY 11
3C	365	Passat wagon 2011 ➤
3CC	357	Passat CC from MY 09, CC from MY 10
3D	3D	Phaeton 2003 ➤
5N	5N	Tiguan from 2008
7N	7N	Sharan from MY 11
7P	7P	Touareg 2010 ➤



1.4 Tire Wear and Performance

- ⇒ ["1.4.1 Wear and Performance", page 7](#)
- ⇒ ["1.4.2 Tire Requirements", page 8](#)
- ⇒ ["1.4.3 High Speed Tires, Wear Characteristics", page 8](#)
- ⇒ ["1.4.4 Tire Service Life, Influences", page 8](#)
- ⇒ ["1.4.5 Driving Style", page 9](#)
- ⇒ ["1.4.6 Tires, Maintaining", page 10](#)
- ⇒ ["1.4.7 Tire, Uniformly Worn", page 11](#)
- ⇒ ["1.4.8 Tread Depth, Measuring", page 11](#)
- ⇒ ["1.4.9 Tire Wear, One Sided", page 12](#)
- ⇒ ["1.4.10 Tire Wear, Outer Shoulder", page 15](#)
- ⇒ ["1.4.11 Tire Wear, Center", page 15](#)
- ⇒ ["1.4.12 Diagonal Washouts", page 17](#)

1.4.1 Wear and Performance

Numerous demands are made on a tire. Refer to
⇒ ["1.4.2 Tire Requirements", page 8](#)

Each of these demands is made on every tire to a certain degree.

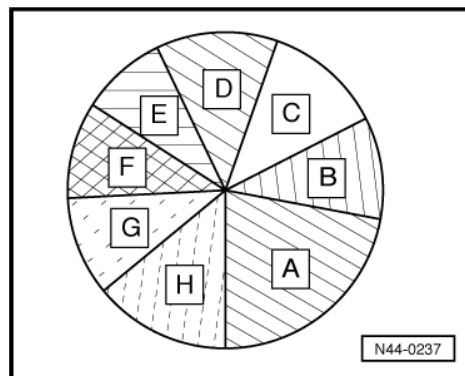
Depending on the use of the tire and the vehicle type, certain demands may be more heavily weighted while others are accordingly less significant.

One expects greater adhesion, even on wet or flooded surfaces from H, V and Z tires for "high-powered vehicles". Consequently, the service life for tires of this type is not as high as for S or T tires, for example.



1.4.2 Tire Requirements

- A - Wet braking behavior
- B - Comfort
- C - Steering precision
- D - Driving stability
- E - Tire weight
- F - Service life expectancy
- G - Rolling resistance
- H - Hydroplaning



The pie chart represents the tire's performance. It shows how the extent of the demands A through H could be distributed in tire construction and rubber compound.

The improvement of one characteristic leads to the worsening of another one.

Example:

The improvement of wet braking behavior -A- leads to losses in comfort -B-, rolling resistance -G- and service life expectancy -F-.

The service life expectancy of car tires depends not only on the rubber compound and the tire construction. The operating conditions, circumstances specific to the vehicle and the driving style all have a strong influence on the tire's service life.

With modern vehicles and appropriate engines, especially gentle and economical but also extremely sporty driving is possible. Service life of 5000 to 40000 km and even more is possible.



Note

Driving style is the decisive influencing factor on the life of the tires.

1.4.3 High Speed Tires, Wear Characteristics

These tires are designed for the highest speeds. Good traction on wet roads is emphasized when developing these tires. Tread compounds do not have the abrasion resistance of tires for lower speeds, such as T and H tires.

Therefore the service life expectancy of high-speed tires is substantially lower under comparable operating conditions.

1.4.4 Tire Service Life, Influences

The following factors influence the service life of a tire in varying degrees.

Driving Style

- ◆ Speed, refer to [⇒ page 9](#)
- ◆ Braking, refer to [⇒ page 9](#)
- ◆ Acceleration, refer to [⇒ page 9](#)
- ◆ Driving around curves, refer to [⇒ page 10](#)

More information on driving style factors, refer to [⇒ "1.4.5 Driving Style", page 9](#).



Service

- ◆ Tire pressure, refer to ➤ [page 10](#)

More information on maintenance factors, refer to
➤ [“1.4.6 Tires, Maintaining”, page 10](#)

Area

- ◆ Paving
- ◆ Exterior temperature/climate

Vehicle

- ◆ Weight
- ◆ Dynamic toe and camber values

Tire Operating Conditions

- ◆ Speed range
- ◆ Wet or dry

Tire Construction

Winter/summer

1.4.5 Driving Style

I. Constant driving without deceleration and acceleration

Example:

Speed (km/h)	Slip	Abrasion
100	1	1
180	3	9

II. Braking (driving style)

The highest abrasion is achieved when braking.

Example: Braking at a speed of 50 km/h.

Braking Distance (meters)	Deceleration (m/s ²) ¹⁾	Slip	Abrasion
Coasting vehicle		0	0
100	0.1 x g	4	1
50	0.2 x g	8	4
12.5	0.4 x g ²⁾	32	2000 - 3000

1) g = acceleration of fall: 9.81 m/s².

2) A deceleration with 0.4 x g corresponds to strong braking.

III. Accelerating (driving style)

The slip that occurs during a gentle acceleration from a stop is approximately the same as the slip that occurs at a steady speed of approximately 100 km/h.

Example:

	Slip	Abrasion
Gentle acceleration	1 - 2	1



	Slip	Abrasion
Normal acceleration	7 - 8	5
Acceleration with driving wheels	20 and more	100 - 200

IV. Driving around curves (driving style)

A »sporty« driving style and driving at higher speeds also cause greater wear when driving around curves.

In practice, this means doubling the speed in a curve leads to an increased abrasion by a factor of 16. This is the »extra charge« for driving faster.

Example: Driving around a curve with a radius of 150 m.

Speed (km/h)	Lateral Acceleration (m/s ²) ³⁾	Abrasion
50	1 = 0.13 x g	1
80	2.5 = 0.33 x g	6,5
100	4 = 0.53 x g	16

3) g = gravitational acceleration: 9.81 m/s².

1.4.6 Tires, Maintaining

Air Pressure of Tire

The weight of the vehicle flattens the tire's contact patch. When the tire rolls, this results in deformation all around the circumference of the tread and the entire belt assembly. With low pressure, there is a greater deformation which results in more intense warming and greater rolling resistance. This all results in a greater wear and a greater safety risk.

Example: Specified series production tire pressure depending on load on cold tires.

Air Pressure (Bar)	Air Pressure (%)	Service Life (%)
2.3	100	100
1.9	80	85
1.4	60	60
1.0	40	25

Excessive air pressure leads to greater wear at the center of the tire and reduced rolling comfort. It is recommended always to maintain the air pressure indicated by the manufacturer.



Note

- ♦ The diagrams presented cannot be applied in general.
- ♦ They only illustrate the wear characteristics on the front and rear axles as well as wear characteristics of front and all-wheel drive vehicles.
- ♦ Depending on operating conditions and chassis, the service life that can be attained may deviate substantially.



Diagram 1

Tread depth over service life for vehicles with front wheel drive and V tires.

P - Tread depth

S - Distance driven

1 - Front axle

2 - Rear axle

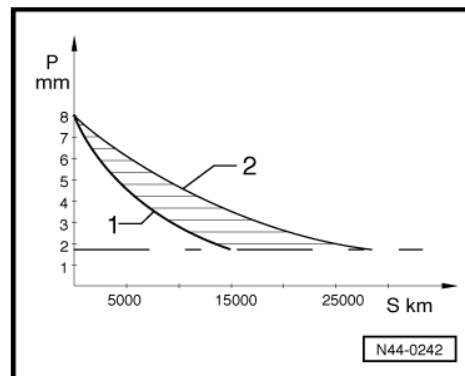


Diagram 2

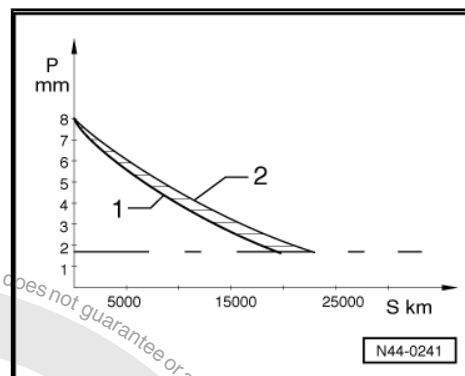
Tread depth over service life for vehicles with all wheel drive and V tires.

P - Tread depth

S - Distance driven

1 - Front axle

2 - Rear axle



As can be seen in diagrams 1 and 2, for a given distance, more tread wears off tires with a complete tread than off tires which are quite worn. After the first 5000 km, no conclusion can be made about the total service life because the wear curve is not linear.

On front-wheel drive vehicles, the front wheels must transmit the major portion of the lateral and braking forces as well as the steering and traction forces. Due to these demands, the front tires on front wheel vehicles wear more quickly than rear tires. Even usage of all tires is achieved by regularly exchanging front and rear tires. Refer to ➤ ["1.12.1 Rotating", page 51](#).

1.4.7 Tire, Uniformly Worn

The demands on the tires increase constantly.

The causes are the following factors:

- ◆ Higher vehicle weight.
- ◆ High speeds.
- ◆ Increased vehicle safety.

A high load on tires naturally causes high wear.

The driving style has a profound influence on the tire wear. Therefore, for complaints about wear when the treads are uniformly worn, the tires will not be replaced under warranty.

The actual service life of a tire can only be determined when the tread depth is 2 mm. Diagram, refer to ➤ [page 11](#)

1.4.8 Tread Depth, Measuring



Note

- ◆ When measuring tread depth, take measurements in the main grooves.
- ◆ Do not take measurements at the tread wear indicator.

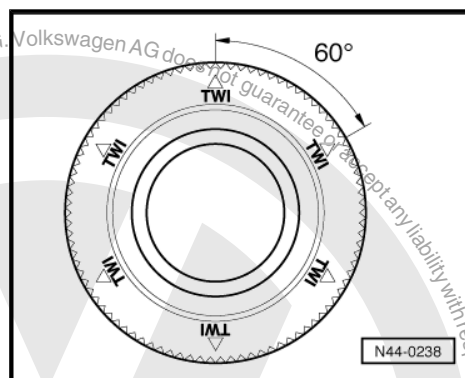


Tread depth of a tire must be measured in the main grooves at the points showing the most wear. The positions of the tread wear indicators are marked along the tire shoulder. Refer to [⇒ "2.1 Side Wall Lettering", page 79](#)

In place of "TWI", there may also be a "Δ" or "VW emblem".

The TWI protrusions are 1.6 mm tall. This is the minimum tread depth legally prescribed in Germany.

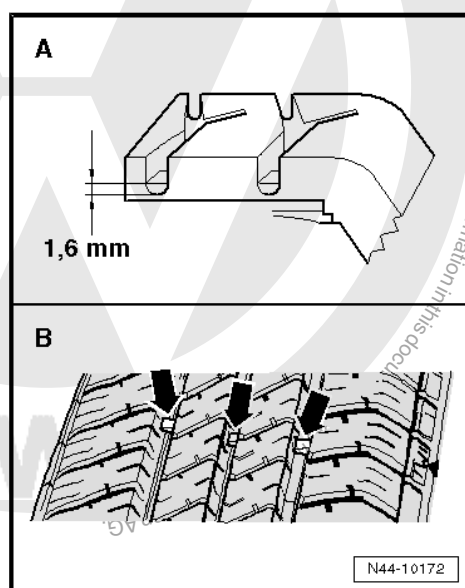
Different values may apply in other countries.



Tread Wear Indicators (TWI) must not be included in the measurement. The deepest point of the groove must be used for the measurement.

A - Tread Wear Indicators in main grooves.

B - Main grooves with Tread Wear Indicators -arrows-.



1.4.9 Tire Wear, One Sided

In many cases, this is caused by driving style, but sometimes it is also caused by incorrect axle adjustment.

Increased One-Sided Wear

One-sided wear, in conjunction with scrub marks on tread ribs and finer grooves, always appears when tires roll at an extreme slip angle and consequently "scrub" on the road surface.

Driving quickly around curves leads to increased wear, especially on the outside edge.

A rounded tire shoulder in conjunction with especially high wear on the outer tread bars indicates fast driving around curves. This wear pattern is influenced by the driving style.

The suspension is adjusted to certain toe and camber values to optimize handling. When tires roll under conditions other than those specified, increased and one-sided wear must be expected.

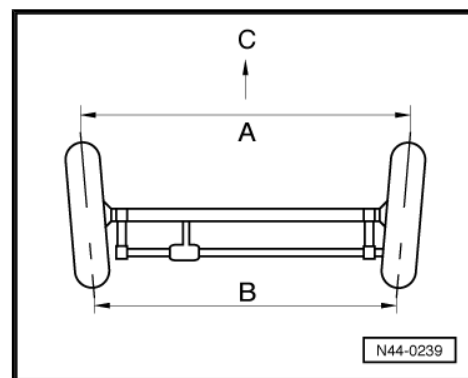
Strong one-sided wear can be caused especially by incorrect toe and camber values. This increases the danger of diagonal wear spots.





Toe-Out or Negative Toe-In

The distance between the fronts of the tires -A- is greater than the distance between the backs of the tires -B- (-C- = direction of travel).



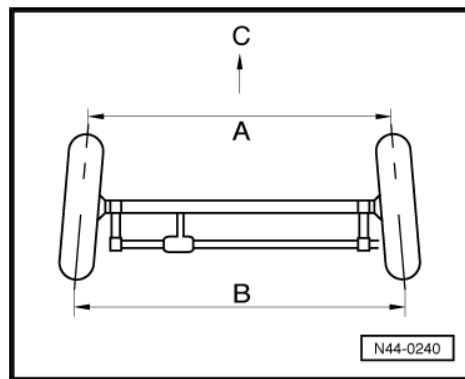


Toe-In or Positive Toe-In

The distance between the fronts of the tires -A- is less than the distance between the backs of the tires -B- (-C- = direction of travel).

To avoid one-sided tire wear, ensure that the wheel alignment remains within the tolerances specified by the vehicle manufacturer. The most common deviation of wheel alignment is caused by external influences, for example hard contact with the curb when parking.

A measurement of the axle geometry can determine whether the wheel alignment is within the specified tolerances or whether a correction of the wheel alignment is necessary.



Changes to the Suspension

If a "lowering-kit" and/or light alloy wheels from accessories which have not been recommended by VW are used, wheel alignments which deviate from the alignment specified in design may occur during travel.

Even if the adjustment of the axle geometry measured on a standing vehicle is correct, changes in the body height and positions of the wheels during travel can lead to changes to the paths of travel of the wheel suspension.

For this reason, uneven wear is pre-programmed.

Improper Use of Air Suspension Height Adjustment

The use of off road levels is only recommended when driving off road. The permanent use of off road levels on normal roads can lead to increased tire wear because the changed height changes the wheel alignment relative to the road level.



Note

To prevent one-sided tire wear, correct axle geometry adjustment should be ensured on the one hand, and intended use of the vehicle on the other hand.

Good vehicle and tire maintenance helps to prevent tire wear. The following points should especially be observed.

- ◆ The specified minimum tire pressures must be maintained.
- ◆ Different wear on front and rear axle cannot be avoided depending on driving style. This can be counteracted by regular tire rotation. This lends itself, for example, to the rotational change from summer to winter tires and back. This change has the positive side effect of all tires wearing evenly so a complete set of new tires can be installed. This prevents use of different tire tread depths on both axles, which can have negative effects on driving behavior.
- ◆ The formation of heel and toe wear is a normal wear pattern, particularly with a very smooth driving style. This can lead to increased rolling sounds which are generally improved with increased tread depth. If heel and toe wear is light or is still forming, exchanging tires on both sides is generally sufficient. With strong heel and toe wear, tires should be rotated so that their direction of travel is reversed. Refer to

⇒ ["1.5.2 Heel and Toe Wear", page 18](#)



- ◆ On some tire profiles, the effect of premature wear can be detected visually. If winter tire ribs or profile recesses have been worn off, only compact profile blocks without tread pattern, which gives the impression of a worn tire. In this case, the remaining profile depth in each tread groove must be measured. If it is greater than the legally required minimum tread depth (Germany 1.6 mm; it is recommended to use winter tires with a remaining profile of 4 mm only in summer use [regulation in Austria]), the tires can be reused without restrictions.

1.4.10 Tire Wear, Outer Shoulder

Improper Use of Air Suspension Height Adjustment

The use of off road levels is only recommended when driving off road. The permanent use of off road levels on normal roads can lead to increased tire wear because the changed height changes the wheel alignment relative to the road level.



Note

To prevent one-sided tire wear, correct axle geometry adjustment should be ensured on the one hand, and intended use of the vehicle on the other hand.

Good vehicle and tire maintenance helps to prevent tire wear. The following points should especially be observed.

- ◆ The specified minimum tire pressures must be maintained.
- ◆ Different wear on front and rear axle cannot be avoided depending on driving style. This can be counteracted by regular tire rotation. This lends itself, for example, to the rotational change from summer to winter tires and back. This change has the positive side effect of all tires wearing evenly so a complete set of new tires can be installed. This prevents use of different tire tread depths on both axles, which can have negative effects on driving behavior.
- ◆ The formation of heel and toe wear is a normal wear pattern, particularly with a very smooth driving style. This can lead to increased rolling sounds which are generally improved with increased tread depth. If heel and toe wear is light or is still forming, exchanging tires on both sides is generally sufficient. With strong heel and toe wear, tires should be rotated so that their direction of travel is reversed. Refer to [⇒ "1.5.2 Heel and Toe Wear", page 18](#)
- ◆ On some tire profiles, the effect of premature wear can be detected visually. If winter tire ribs or profile recesses have been worn off, only compact profile blocks without tread pattern, which gives the impression of a worn tire. In this case, the remaining profile depth in each tread groove must be measured. If it is greater than the legally required minimum tread depth (Germany 1.6 mm; it is recommended to use winter tires with a remaining profile of 4 mm only in summer use [regulation in Austria]), the tires can be reused without restrictions.

1.4.11 Tire Wear, Center

This wear pattern is found on drive wheels on high-powered vehicles that often drive long stretches at high speed.

At high speeds, the centrifugal force increases the tire diameter at the center of the tread more than at the shoulders of the tire. The drive forces from the center area of the tread are transferred to the road surface. This is reflected in the wear pattern.

These effects can appear especially extreme on wide tires.



Note

Reducing the tire pressure is not an effective remedy for this wear pattern.



WARNING

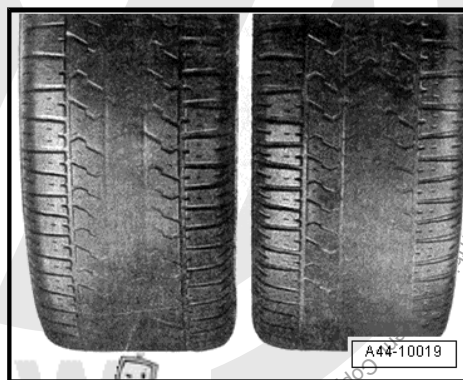
For safety reasons, tire pressure must never be lowered below specified pressure under any circumstances.

A largely even wear pattern can be achieved if tires are changed in a timely manner from the tractive to the non-tractive axle.

Increased Tread Wear

Typical wear pattern of tires on the tractive axle of high-powered vehicles.

The increased wear at the tread center is caused by stresses related to the centrifugal force of the tire and the transmission of traction forces.





1.4.12 Diagonal Washouts

Diagonal Wear Spots on Tires

Diagonal wear spots run at an angle of approximately 45° with respect to the plane of circumference.

They usually occur once, but may also occur several times along the tire circumference.

Wear spots appear almost exclusively on the non-tractive tires, especially the rear left tire. There are vehicle models where wear spots appear rounded, which are not a problem. The effect is increased by high toe values. Toe values at the lower tolerance limit of the specified value improve the wear pattern.

The tire component integration is often found in the area with the most pronounced diagonal wear spots.

Wheels with toe-in roll with a slip angle even when the vehicle is traveling straight ahead. This leads to diagonal tension in the contact zone between tires/road surface.

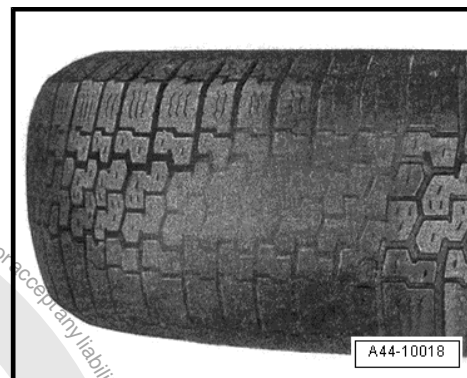
Driving with reduced tire pressure will improve the wear pattern. To prevent such wear patterns, the toe values of both rear wheels should be the same and the specified tire pressure should be maintained.

If wear spots are detected, mount the wheels on the tractive axle if the wear spots are still in the initial stage. Deeper wear spots are irreparable.

Faulty Adjustment

When a customer complains of "diagonal wear spots", the toe adjustment must be checked. If it is OK, the cause for the diagonal wear spots is most likely in the tires.

Tires with diagonal wear spots which developed due to faulty adjustment of the axle geometry are excluded from the warranty.



1.5 Tires, Rolling Noises

⇒ ["1.5.1 Rolling Noises", page 17](#)

⇒ ["1.5.2 Heel and Toe Wear", page 18](#)

⇒ ["1.5.3 Wear Spots", page 19](#)

1.5.1 Rolling Noises

Rolling noise perceived by the human ear is caused by vibrations transmitted from the noise source to the ear via the air.

Here we are interested in noises created by certain characteristics of the tires as well as the effects of rolling (noise source).

The cause for the noise generation depends primarily on the combination of road surface and tire.

The surface structure and material of the road surface also have a strong influence on the rolling noise. For example, the noise level on a wet road is substantially higher than on a dry road.

The design of the tread has a great influence on the noise generation. Tires with cross grooves at an angle of 90° are louder than tires with grooves running diagonally.

Small tread blocks are unstable. Due to strong deformation, the air is excited by the rolling tires. Air vibrations occur, which will generate noises.



Wider tires are louder. They require more tread grooves for water displacement. Air is displaced by these tread grooves while rolling, which also cause air vibrations.

Other effects which also have an influence on noise generation:

- ◆ "Tire vibration" is the main cause of rolling noise. The noise is generated by the excitation of the air column in the grooves.
- ◆ "Air pumping" is the compression and expansion of air as the contact patch comes in contact with the road surface and the tread blocks are deformed.

Aid to Reasoning of Rolling Noise

Noise generation is created chiefly by tires and the road surface.

Influencing factors of road surface are roughness, structure and material.

Influencing factors for tires fall under different tire and rim widths. A wider tire generates more noise due to its wider contact patch than a narrower tire does, because more air is displaced and a greater "mass" is caused to vibrate.

A wider rim also causes the tire to have a wider contact patch. The effects on noise generation are basically the same as those of a wider tire. In addition, the noise suppression characteristics of the tire can, under certain circumstances, be negatively affected by the wider rim.

The tire rolling noise is significantly noticeable in the rear of vehicles with front engines, because wind and engine noise are less audible in the back.

1.5.2 Heel and Toe Wear

Heel-and-toe wear is step-like wear of individual tread blocks, due to which an increased rolling noise can develop. The heel-and-toe wear is caused by the uneven distortion of the tread blocks in the contact patch. Heel-and-toe wear appears in more extreme forms on non-tractive wheels than on tractive wheels.



New tires have a stronger tendency to heel-and-toe wear, because the high tread blocks have greater elasticity. As tread depth decreases, the rigidity of the tread blocks increases and the tendency to heel-and-toe wear decreases.

Appearance of Heel-and-Toe Wear

A - Tread blocks of a new tire; viewed in direction of travel -arrow 1-, tread blocks have the same height in front and rear.

B - Heel-and-toe wear; viewed in direction of travel -arrow 1-, the tread blocks are higher in front than in rear -arrow 2-.

C - Viewed in direction of travel -arrow 1-, tread blocks exhibit significant wear in forward area of "heel-and-toe wear" -arrow 3-.

Extreme heel-and-toe wear may lead to customer complaints about noise.

Increased heel-and-toe wear occurs with:

- ◆ Toe values too great.
- ◆ Incorrect air pressure.
- ◆ Deep, open treads.
- ◆ Tires which are not mounted on the tractive axle.
- ◆ Extreme driving style around curves.

Non-Directional Tires

When heel-and-toe wear occurs, the direction of travel of the tire must be reversed. If increased heel-and-toe wear and rolling noise develop, the tires should be rotated diagonally. This leads to a reduction of heel-and-toe wear.

On vehicles with front wheel drive, this effect is increased by increased wear on front axle.

The rolling noise is somewhat louder immediately after rotating the wheels, but the normal noise level will be reached after traveling approximately 500 to 1000 km.

Directional Tires

In the event of increased heel-and-toe wear of the tires on the rear axle - most common with front-wheel drive - rotate the wheels from back to front. In the event of increased heel-and-toe wear on the outer edges on one axle, reverse both tires on their rims. Then the left wheel must be mounted on the right side and the right wheel on the left side.

1.5.3 Wear Spots

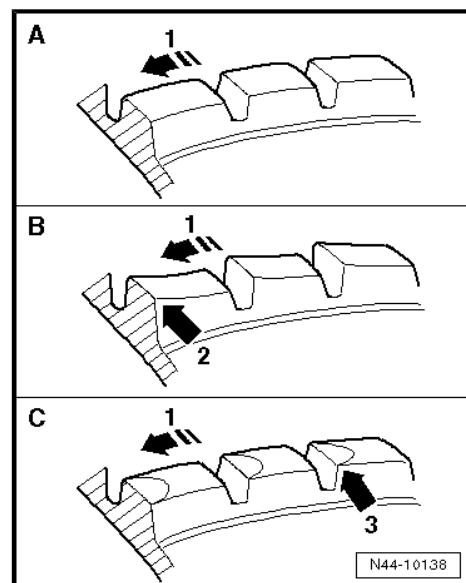
Wear spots are caused by a hard stop with locked wheels whereby the rubber compound is abraded from the contact patch.

When the tires slide across the road surface, frictional heat is generated which reduces the abrasion resistance on the tread compound.

Even the most abrasion-resistant tread compound cannot prevent wear spots which can occur during extreme braking.

Even ABS cannot completely prevent brief locking and the resulting slightly flat spots.

The degree of abrasion is primarily dependent on the vehicle speed, road surface and tire load. For clarification see the following examples.



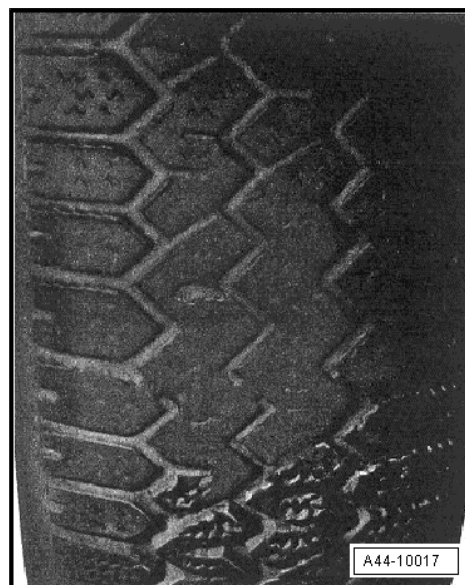


If a vehicle with locked front wheels is decelerated until it comes to a stop, the abrasion of rubber on the post card sized contact patch is approximately:

- ◆ From 57 km/h = 23.8 m braking distance, up to 2.0 mm.
- ◆ From 75 km/h = 41.8 m braking distance, up to 3.3 mm.
- ◆ From 92 km/h = 71.6 m braking distance, up to 4.8 mm.

Wear Spots in Tread

Tires with this type of damage cannot be used and must be replaced.



1.6 Wheel and Tire Vibration

⇒ ["1.6.1 Causes for Vibration", page 20](#)

⇒ ["1.6.2 Balancing", page 21](#)

⇒ ["1.6.3 Road Test, Performing before Balancing", page 21](#)

⇒ ["1.6.4 Stationary Balancing Machine", page 21](#)

⇒ ["1.6.5 Vibration Control Tire Balancer VAS 6230", page 23](#)

⇒ ["1.6.6 Finish Balancer", page 23](#)

⇒ ["1.6.7 Wheels and Tires, Radial Lateral Run-Out", page 24](#)

⇒ ["1.6.8 Wheel and Tire Radial and Lateral Run-Out, Checking with Tire Dial Gauge", page 25](#)

⇒ ["1.6.9 Disc Wheel, Checking Radial and Lateral Run-Out", page 25](#)

⇒ ["1.6.10 Matched Mounting", page 26](#)

⇒ ["1.6.11 Flat Spots in Tires from Standing", page 27](#)

1.6.1 Causes for Vibration

There are many causes for vibration. Vibration can also be caused by tire wear, among other things. Tire wear caused by driving does not always develop evenly over the entire tread. Due to this, a slight imbalance develops which disturbs the smoothness of the formerly accurately balanced wheel.

This slight imbalance cannot yet be felt in the steering wheel, but it is present. It increases the tire wear and consequently reduces the service life of the tire.

Recommendation

Over the entire service life of a tire, in order to guarantee:



- Optimal safety
- Optimal smoothness
- Uniform wear

It is recommended that wheels/tires be balanced at least two times within the tire's service life.

1.6.2 Balancing

Before beginning balancing, the following requirements must be fulfilled:

- Tire inflation pressure must be OK.
- The tire tread must not be worn down on one side and should be at least 4 mm deep.
- The tires must not have any damage such as cuts, holes, foreign bodies, etc.
- The suspension, steering, tie rods and damper must be in proper working order.
- A road test has been performed.

1.6.3 Road Test, Performing before Balancing

If a vehicle comes to the workshop with the complaint "vibration", a road test must be performed before balancing the wheels.

- ◆ That way, information about the type of vibration can be obtained.
- ◆ Observe at which speed range(s) the disturbance takes place.
- Raise the vehicle on the platform immediately after the road test.
- Mark the installation position on the tire.

Component Location of Tire	Identification with:
Left front tire	LF
Right front tire	RF
Left rear tire	LR
Right rear tire	RR

- Remove wheels from vehicle.
- Balance the wheels.

1.6.4 Stationary Balancing Machine

Tension Wheel on Balancing Machine



Note

Please keep in mind that cleanliness is very important when balancing as well, just as for any other repairs you perform. Only then can a proper result be obtained!

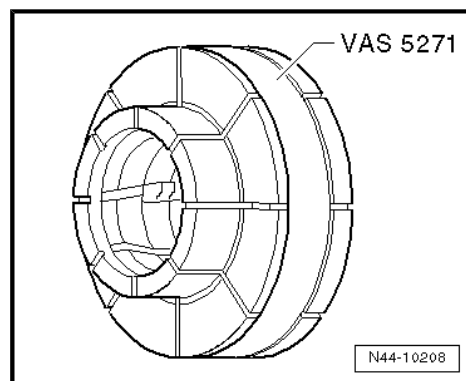
Dirt and rust in the area of the contact surfaces and centering of the wheel distort the result.

- Clean contact surfaces, centering seat and wheel disc before tensioning wheel on balancing machine!
- Tension wheel with tire on balancing machine.



Note

- ◆ To mount wheel on wheel balancer, use the wheel balancing machine centring system -VAS 5271-.
- ◆ This way a 100% centering of the wheel and gentle mounting is possible!
- ◆ It is not possible to center it 100% on balancing machine with conical tensioners.
- ◆ With a deviation of 0.1 mm outside the center, there is an imbalance of 10 grams on the wheel/tire.



Wheel/Tire Balancing Procedure

- Let the wheel and tire rotate on the wheel balancer.
- Check the run of the characteristic lines on the sidewall of the tire in the area of the rim flange.
- Check the tire wear pattern while the wheel and tire are rotating.



Note

In the event of one-sided wear, flat spots from braking or severe wear spots, smooth running cannot be achieved by balancing. In this case, the tire must be replaced.

- Check the run-out of the wheel and tire. If the wheel with tire runs untrue although there are no flat spots, a radial or lateral run-out may be the cause.
- Check wheel with tire for radial and lateral run-out. Refer to [⇒ "1.6.8 Wheel and Tire Radial and Lateral Run-Out, Checking with Tire Dial Gauge", page 25](#)
- If the radial and lateral run-out are within the specified tolerance, balance the wheel and tire.



Note

- ◆ Do not use more than 60 grams of weight per wheel.
- ◆ If more weight is necessary, a smoother running can be achieved by matched mounting of the tire. Refer to [⇒ "1.6.10 Matched Mounting", page 26](#).
- ◆ The display in the balancing machine should show 0 grams when completed.
- ◆ Vibration control tire balancer -VAS 6230- can be inserted as an alternative to matching. Refer to [⇒ "1.6.5 Vibration Control Tire Balancer VAS 6230", page 23](#).
- Bolt the wheel to the vehicle.
- First, tighten the lowest wheel bolt by hand to approximately 30 Nm.
- Now tighten the remaining wheel bolts diagonally also to about 30 Nm. This process centers the wheel on the wheel hub.
- Put the vehicle on its wheels.



- Now use a torque wrench to tighten the wheel bolts diagonally to the specified tightening specification.

Road Test, Performing

- Perform a road test after balancing wheel/tire.

If a vibration is still detected during the road test, the cause may be due to tolerance in the wheel centering.

The component tolerances of wheels and wheel hubs can be additive in unfavorable cases. Vibration can result from this. This can be eliminated using a finish balancer. Refer to

⇒ [“1.6.6 Finish Balancer”, page 23](#)

1.6.5 Vibration Control Tire Balancer VAS 6230

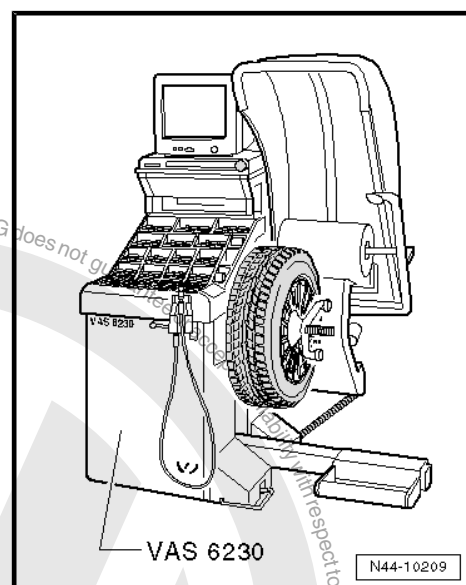
Expanded functions can be performed using vibration control tire balancer -VAS 6230- in addition to the previously known balancers.

A special characteristic of this system is testing the radial force of wheel/tire during rolling.

For this purpose, a roller presses a force of approximately 635 kg against the wheel. This simulates the tire contact force against the street surface while driving.

Tire contact forces fluctuate due to radial and lateral run-out and differing rigidity in the tires.

The -VAS 6230- detects and stores the position of the maximum measured radial force in the tires. After that, the position of smallest dimension between rim flange and disc wheel center is measured.



1.6.6 Finish Balancer



Note

- ◆ Working with a finish balancer requires instruction from the manufacturer of the balancer.
- ◆ For the balancing, the wheels of the tractive axle are set upon the turntable sensors, i.e. front wheels for Front Wheel Drive (FWD) and all 4 wheels for All Wheel Drive (AWD).

If it is determined when balancing on the vehicle the remaining imbalance is more than 20 grams, the wheel should be rotated on the wheel hub.

- Mark the point at which the imbalance is indicated.
- Afterwards, unbolt the wheel and rotate its position on the wheel hub so that the marking points downward.



Note

The wheel hub must not turn during this procedure.

- First, tighten the lowest wheel bolt by hand to approximately 30 Nm.



- Now tighten the remaining wheel bolts diagonally also to about 30 Nm. This process centers the wheel properly on the wheel hub.
- - Check again whether the imbalance is less than 20 grams using the finish balancer.



Note

The imbalance should not be smaller than 20 grams under any circumstances before changing balance weight.

- Remove the wheel bolts again if necessary.
- Rotate the wheel relative to the wheel hub once more by one or two wheel bolt holes.
- Tighten the wheels using the method described above.



Note

The imbalance should only be reduced by changing balance weight if the imbalance is less than 20 grams.

- Balance the wheels until the imbalance is below 5 grams.
- Tighten the wheel bolts to the specified tightening specification if you have not already done so.



WARNING

Always tighten the wheel bolts to the specified tightening specification with a torque wrench.

1.6.7 Wheels and Tires, Radial Lateral Run-Out

Radial and lateral run-out occur when the wheel and tire are not running precisely true.

For technical reasons, 100% true running is not possible.

Therefore the manufacturers of these components allow a precisely specified tolerance.

Mounting the tire in a unfavorable position on the wheel can be the cause for exceeding the maximum allowed tolerance for wheel with tire.

The table shows the maximum permissible tolerance values for the wheel with mounted tire.

Tolerances for Radial and Lateral Run-Out of Disc Wheel with Tire

Wheel with Tire	Radial Run-Out (mm)	Lateral Run-Out (mm)
Passenger vehicle	0.9	1.1 (1.3 in vicinity of lettering)



1.6.8 Wheel and Tire Radial and Lateral Run-Out, Checking with Tire Dial Gauge

Checking Lateral Run-Out

- Load the tire dial gauge approximately 2 mm.
- Set up tire dial gauge on the side wall of the tire.
- Slowly rotate the wheel.
- Note the smallest and the largest dial readings.



Note

If the difference is greater than 1.3 mm, the lateral run-out is too great.

In this case, lateral run-out can be reduced by matched mounting of the tire. Refer to ➤ ["1.6.10 Matched Mounting", page 26](#).

Peak values on the tire dial gauge due to small irregularities in the rubber may be disregarded.

Checking Radial Run-Out

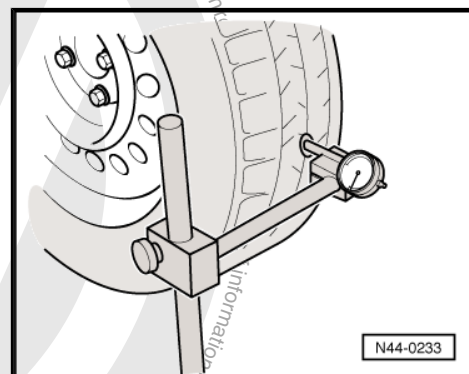
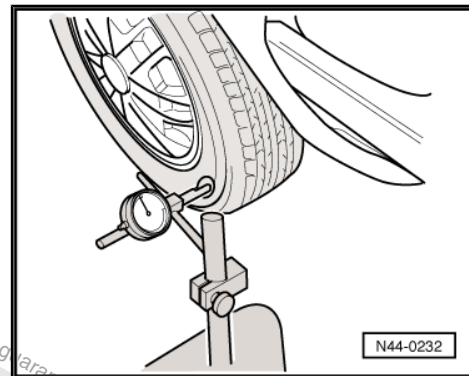
- Load the tire dial gauge approximately 2 mm.
- Set up tire dial gauge on the tire tread.
- Slowly rotate the wheel.
- Note the smallest and the largest dial readings.



Note

If the difference is greater than 1 mm, the radial run-out is too great.

In this case, radial run-out can be reduced by matched mounting of the tire. Refer to ➤ ["1.6.10 Matched Mounting", page 26](#).



1.6.9 Disc Wheel, Checking Radial and Lateral Run-Out

- Mount the disc wheel on the wheel balancer.
- Use the wheel balancing machine centring system -VAS 5271-.
- Load the tire dial gauge approximately 2 mm.
- Slowly turn the disc wheel.

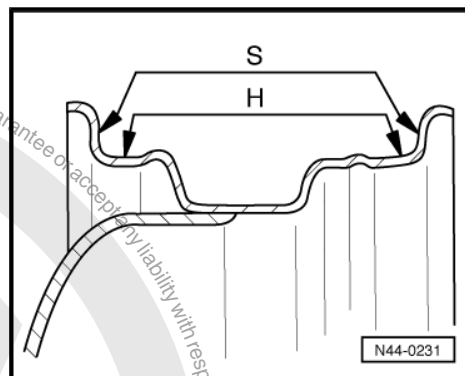


- Note the smallest and the largest dial readings.
- S - Lateral run-out
- H - Radial run-out
- Compare determined value with specifications in the table.



Note

Peak values on the tire dial gauge due to small irregularities may be disregarded.



Specifications for Radial and Lateral Run-Out on Disc Wheel

	Disk Wheel	Radial Run-Out (mm)	Lateral Run-Out (mm)
Passenger vehicle	Steel wheel	0.5	0.5
	Light alloy wheel	0.5	0.8



Note

If the measured value exceeds the specified value, no acceptable smooth running can be attained.

1.6.10 Matched Mounting

General Information

If radial or lateral run-out from wheel or tire meet each other, the untrue running of the wheel and tire is increased.

For technical reasons, 100% true running is not possible. Refer to ➤ ["1.6.7 Wheels and Tires, Radial Lateral Run-Out", page 24](#)

Drive the tires until they are warm before matching them to the tires already on the vehicle. This eliminates flat spots from standing which may exist. Refer to ➤ ["1.6.11 Flat Spots in Tires from Standing", page 27](#)

Work Procedure for Match-Mounting

- Let the air out of the tire.
- Press the tire beads off the rim flanges.
- Coat the tire beads all around with tire mounting paste.
- Rotate the tire 180° relative to the disc wheel.
- Inflate the tire to approximately 4 bar.
- Tension wheel with tire on balancing machine.
- Check the run-out or the radial and lateral run-out, as necessary.



Note

- ◆ *If the radial and lateral run-out value is not exceeded, the wheel can be balanced to 0 grams. Specifications, refer to [⇒ page 24](#)*
- ◆ *If the radial and lateral run-out lies outside the specified values, the tire must be turned again.*
- Let the air out of the tire and press the tire beads off the rim flanges.
- Rotate the tire 90° (one quarter turn) relative to the disc wheel.
- Inflate the tire to 4 bar and check for true running.



Note

- ◆ *If the radial and lateral run-out value is not exceeded, the wheel can be balanced to 0 grams.*
- ◆ *If the radial and lateral run-out is still outside the specified values, the wheel must be turned again.*
- Press the tire beads off the rim flanges.
- Rotate the tire 180° (one half turn) relative to the disc wheel.

If the values for radial or lateral run-out are still outside the specified values, check the wheel for radial and lateral run-out. Refer to

⇒ [“1.6.9 Disc Wheel, Checking Radial and Lateral Run-Out”, page 25](#)

If the measured values for radial and lateral run-out of the wheel disc are within the specified values, then the tire has excessive radial or lateral run-out. In this case, the tire must be replaced.



Note

- ◆ *Assembly paste from mounting tires is located between tires and rim flanges.*
- ◆ *Avoid strong braking or acceleration maneuvers during the first 100 to 200 km. Otherwise, the tires can rotate on the rims and the work done would then be undone!*

1.6.11 Flat Spots in Tires from Standing

What is a flat spot from standing?

Terms like flat portion, flattening, are also used as a term for flat spots from standing.

Flat spots from standing cause vibration, like an incorrectly balanced wheel. It is important to recognize a flat spot in the tread from standing as such!

Flat spots from standing cannot be corrected by balancing, and can occur again at any time under various circumstances. Flat spots from standing can be corrected without complicated special tools. Providing that the flat spot was not caused by wheel lock during hard braking. Refer to [⇒ “1.5.3 Wear Spots”, page 19](#)



Note

Wear spots due to wheel lock are irreparable! Tires with such damage must be replaced.

Causes of Flat Spots from Standing

- ◆ The vehicle stands for several weeks in a location without being moved.
- ◆ Tire pressure is too low.
- ◆ The vehicle was placed in a paint system drying cabinet after painting.
- ◆ The vehicle was parked with warm tires in a cold garage or similar for a long time. In this case, a flat spot can develop overnight.

Flat Spots, Correcting

- ◆ Flat spots cannot be removed from tires with workshop equipment.
- ◆ Such flat spots can be "driven out" only by driving the car until the tires are warm.
- ◆ We do not recommend the following method during cold or winter weather.

Requirements/Conditions

- Check and correct the tire pressure as necessary.
- Drive the vehicle on the highway, if possible.
- If the traffic and road conditions permit, drive at a speed of 120 km/h to 150 km/h for a distance of 20 to 30 km.



WARNING

- ◆ ***Do not endanger yourself or other persons during this road test.***
- ◆ ***Observe valid traffic laws and speed limits during the road test!***

- Raise the vehicle immediately after the drive.
- Remove wheels from vehicle.
- Balance the wheels on the stationary balancing machine. Refer to ⇒ ["1.6.4 Stationary Balancing Machine", page 21](#)



1.7 Vehicle Pulls to One Side

⇒ ["1.7.1 General Information", page 29](#)

⇒ ["1.7.2 Taper", page 29](#)

⇒ ["1.7.3 Corrective Action When Vehicle Pulls to One Side", page 30](#)

⇒ ["1.7.4 Targeted Rotating of Wheels for Non-Directional Tires", page 31](#)

⇒ ["1.7.5 Wheels, Targeted Rotating for Directional Tires", page 32](#)

1.7.1 General Information

Perform a road test to determine if a vehicle pulls to one side and if so, when and to which side. If the vehicle pulls to one side. Refer to

⇒ ["1.7.3 Corrective Action When Vehicle Pulls to One Side", page 30](#)

If the vehicle alignment is measured, submit the measurement printout and the complaint report with the tire.

Manufacturer's tolerances can lead to taper in the tire construction. This results in a side force when the tire rolls, which acts directly on the suspension and can therefore lead to vehicle self-steering behavior. Targeted rotation of the wheels can balance out this self-steering behavior.

1.7.2 Taper

Taper is caused by slightly offsetting the tread and/or the belt by a few tenths of a millimeter from the geometric center of the tire. Taper cannot be recognized visually nor can it be measured with workshop equipment.

Components of a Tire

1 - Bead

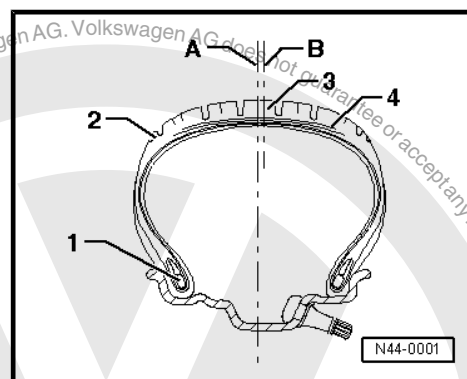
2 - Shoulder

3 - Tread

4 - Steel belt

A - Geometric center of tire

B - Actual position of belt. It can be offset to inside or outside.





Shown out of proportion to provide a better illustration.

1 - Belt/tread offset

F1 - Unequal forces on contact patch

F2 - Unequal forces on contact patch

Fk - Force of taper

The offset produces differences in rigidity of the inner and outer shoulders of the tire, which lead to differing forces on the contact patch. Due to this, the belt and tread will not be pressed against the road surface with the same force (F1, F2). A taper forms. The resulting force (force of taper Fk) can become so large depending on speed, that the vehicle pulls to one side.

If the force (Fk) on one wheel of the axle is, for example, 50 Newton and on the other wheel also 50 Newton, and both forces are exerted in the same direction, the forces are additive. Reversing a tire on the rim can compensate for the pulling because the forces then act against each other.

Because the direction in which the force of taper is exerted is not visible at the tire, only road tests and targeted rotation of wheels and tires can establish which tires cause the pulling.

The tire consists of numerous components and materials which are vulcanized to a single part at the end of a complicated manufacturing procedure. This leads to differing construction tolerances which can make themselves noticeable through more or less strong lateral forces (lateral forces of taper). These forces can also develop in new tires.

One-sided Pulling on Front Axle

Pulling to one side can be caused by the suspension. However, experience shows that in 90% of all complaints, the tires cause pulling to one side.

One-sided Pulling During Normal Driving Style

On a straight, level road surface, the vehicle wants to pull to one side at a constant speed or with moderate acceleration. A force can be felt at the steering wheel.

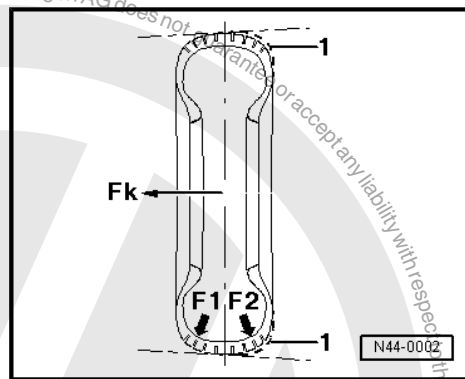
One-sided Pulling During Strong Accelerating

Pulling to one side during fast acceleration is, in part, due to the design of vehicles with front wheel drive. Various frictional conditions of left and right wheels, for example, possible irregularities in the road surface (pot holes) and consequently varying adhesion to ground have a substantial influence on the handling characteristics. This does not constitute a complaint in the sense of warranty coverage.

1.7.3 Corrective Action When Vehicle Pulls to One Side

Test Conditions Before and During the Road Test

- Check all suspension components on front and rear suspension for damage.
- Check tire pressure and correct if necessary.
- Check the tires for external damage. Holes, cuts, bulges in the side wall, flat spots from braking and/or damage to the tread.
- Ask the customer if a tire had been damaged by a nail or similar object and perhaps repaired by a tire dealer. You may have to replace such tires.
- Check tires for even wear and tread depth.





- Are all tires of the same type, manufacture and tread pattern?
- If the tires are non-directional, ensure that all DOT classifications on the tire face outwards. It may be that the vehicle's wheels and tires were already changed around at an earlier date.
- Are the tire brands factory recommended as initial equipment?
- For the road test, use a level, straight driving surface that does not slope off to one side and does not have ruts.
- Perform the road test with the customer under the conditions specified above. The customer should demonstrate the problem.



Note

There should not be any side wind when road test takes place.

If the complaint is justified, it is recommend to rotate the wheels and tires as described on the following pages.

Before beginning, observe the following notes, otherwise all effort will be for nothing!



Note

- ◆ *Mark tires/wheels before the first rotation, e.g. LF, RF, LR, RR.*
- ◆ *After rotating wheels or reversing the tire on its rim, observe very carefully how the vehicle behaves during the road test. Note what was replaced and how.*
- ◆ *The intensity or any possible change to the one-sided pulling should be assessed.*
- ◆ *To do this, it is absolutely essential that the road tests are always performed by the same person on the same road. It is best to drive the "test course" in both directions.*
- ◆ *Replacing a tire with a new tire does not guarantee that pulling to one side will be eliminated. Therefore, it is recommended to perform a targeted exchange of the wheels as described below.*
- ◆ *If there are large differences in the tread depth of the tires on the front and rear axles, the tires with the deeper tread should always be mounted on the front axle.*

1.7.4 Targeted Rotating of Wheels for Non-Directional Tires

↓	
Perform a road test to determine if a vehicle pulls to one side and if so, when and to which side?	
↓	
If the vehicle pulls to one side, swap the front wheels.	
↓	
Road Test, Performing	
Vehicle travels straight - END	
Vehicle pulls opposite	Vehicle pulls to the same side
↓	↓
Reverse one tire on its rim on the front axle (reverse the direction of travel)	Rotate wheels from front to back
↓	↓



Road Test, Performing		Road Test, Performing	
Vehicle travels straight - END		Vehicle travels straight - END	
Vehicle does not travel straight		Vehicle does not travel straight.	
↓		↓	
Swap front wheels and swap back wheels		Vehicle pulls opposite	No change
↓		↓	↓
Road Test, Performing		Reverse one tire on its rim on the front axle (reverse the direction of travel)	Check alignment of front and rear axles, adjust if necessary. If adjustment is correct, inform Product Support.
Vehicle travels straight - END			
Vehicle does not travel straight.			
↓			
Swap the front wheels			
↓			
Road Test, Performing		↓	
Vehicle travels straight - END	Vehicle does not travel straight	Road Test, Performing	
		Vehicle travels straight - END	
	↓	Vehicle does not travel straight	
	Install new tires on front axle	Install new tires on front axle	
	↓	↓	
	Road Test, Performing	Road Test, Performing	
	Vehicle travels straight - END	Vehicle travels straight - END	
	↓	↓	
Vehicle does not travel straight, inform Product Support.			

1.7.5 Wheels, Targeted Rotating for Directional Tires

↓
Perform a road test to determine if a vehicle pulls to one side and if so, when and to which side.
↓
If the vehicle pulls to one side, swap wheel with tire front and back.
↓
Road Test, Performing
Vehicle travels straight - END
Vehicle does not travel straight.
↓
First, replace one tire on the front suspension.
↓
Road Test, Performing
Vehicle travels straight - END
Vehicle does not travel straight.
↓
Replace second tire on the front suspension.
↓



Road Test, Performing
Vehicle travels straight - END
Vehicle does not travel straight.
↓
Measure vehicle at front and back.
↓
Road Test, Performing
Vehicle travels straight - END
Vehicle does not travel straight, inform Product Support.

1.8 Tire Damage

⇒ ["1.8.1 General Information", page 33](#)

⇒ ["1.8.2 Radial Tires, Construction", page 34](#)

⇒ ["1.8.3 Impact Damage", page 34](#)

⇒ ["1.8.4 Cuts", page 36](#)

⇒ ["1.8.5 Damage from Foreign Bodies", page 36](#)

⇒ ["1.8.6 Air Loss", page 36](#)

⇒ ["1.8.7 Tire Pressure", page 36](#)

⇒ ["1.8.8 Damage from Low Tire Pressure", page 37](#)

⇒ ["1.8.9 Tire Temperature, Rising When Tires Pressure Is Too Low", page 38](#)

⇒ ["1.8.10 Damage Due to Mounting Error, Damage from Fitting the Tire", page 39](#)

1.8.1 General Information

Because tire damage can have serious consequences, the technician and the driver should regularly check the tires, as it is the best form of early problem recognition.

Pre-damaged tires cannot withstand driving situations like high vehicle speed, long driving distance, sporty driving style and similar situations.

Damage can occur from various causes, such as the following:

- ◆ Driving with low tire pressure
- ◆ Mistakes during tire mounting
- ◆ Damage during run-in
- ◆ Aging
- ◆ Incorrect storage



WARNING

As soon as a safety risk cannot be ruled out, the tire must be replaced.



1.8.2 Radial Tires, Construction

Cross-Section of a Radial Tire

1 - Tread Block

2 - Tread Groove

3 - Tread

4 - Nylon Ply

5 - Belt Layers

- ❑ Consists mostly of steel.

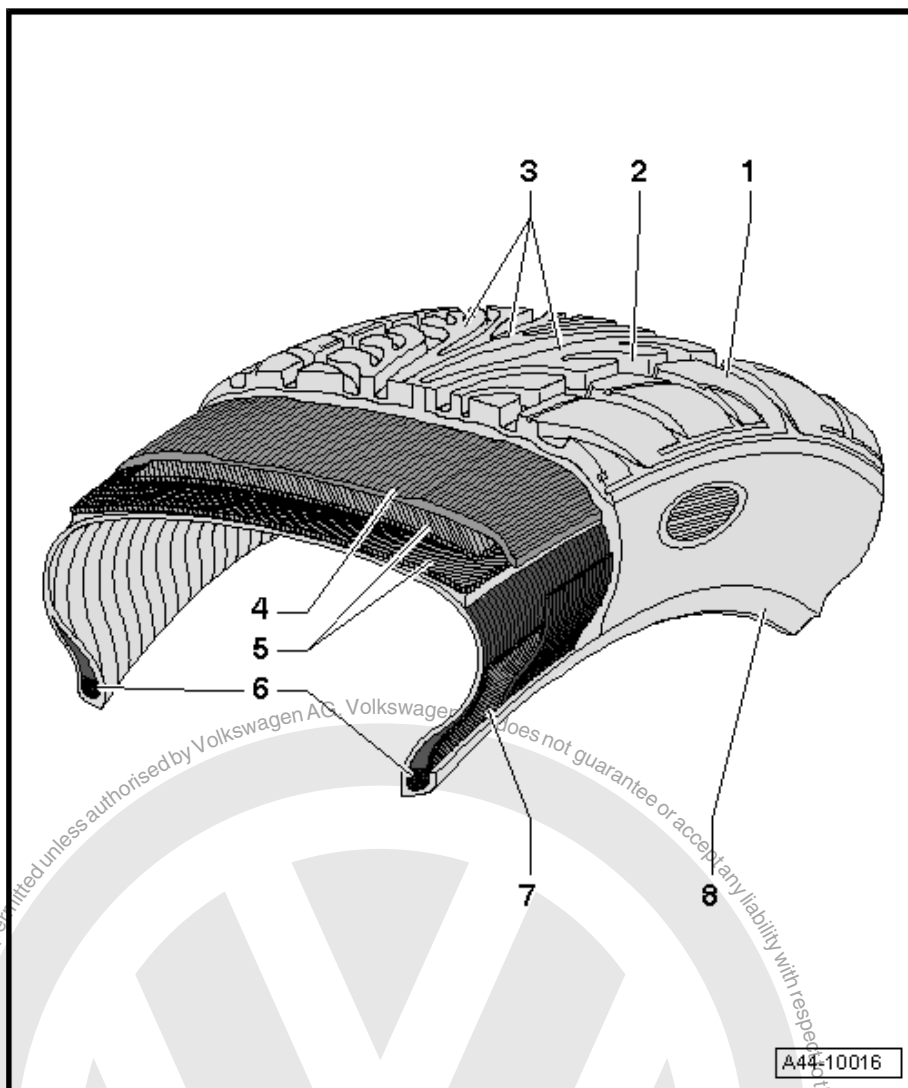
6 - Bead Bundle

- ❑ Consists of steel wires vulcanized into rubber.
- ❑ Make sure secure seating of the tire on the rim.

7 - Bead Filler

8 - Wheel Flange Protection

- ❑ Protects the rim and tire from abrasion due to, for example, contact with the curb.
- ❑ Tires with flange protection are designated by the abbreviation MFS.



The nylon ply -4-, belt layers -5-, bead bundle -6- and bead filler -7- form the carcass. The carcass is the "load-bearing structure" of the tire.

1.8.3 Impact Damage

A swelling in the flank of the tire indicates that the substructure of the carcass has been damaged.

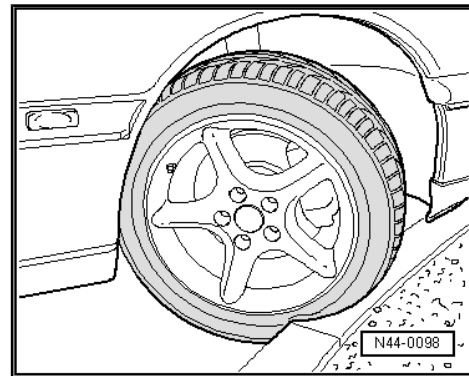


Typical causes for such damage include, for example, driving over curbs at a sharp angle.

Pinching the carcass of a tire this way can damage the carcass.

The substructure of the tire is stretched so far that individual fibers in the carcass may break.

The extent of the damage depends on the speed of impact, the angle of impact, the air pressure, the axle load and the type of obstacle.

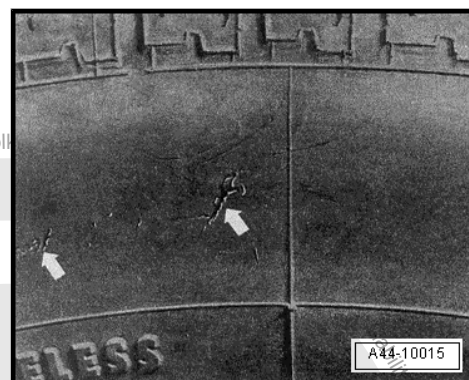


Evidence of Pinching on the Sidewall of a Tire -arrows-



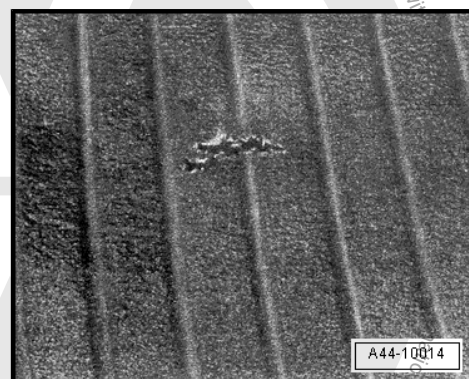
Note

- ◆ *Driving over curbs must be avoided!*
- ◆ *When it cannot be avoided, curbs should be driven over very slowly at the bluntest possible angle.*



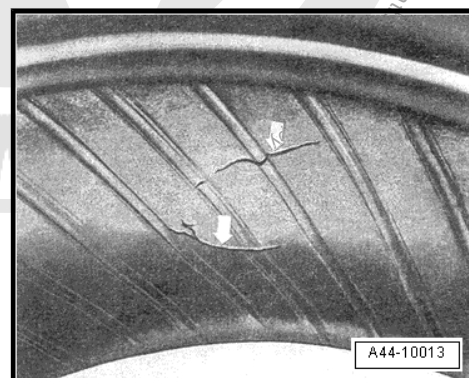
Interior View of a Tire with a Punctured Carcass.

Due to a severe impact, the carcass was pinched on the rim flange and is ruptured in the contact patch.



Inside Tire Damage Due to Impact Damage (Double Rupture)

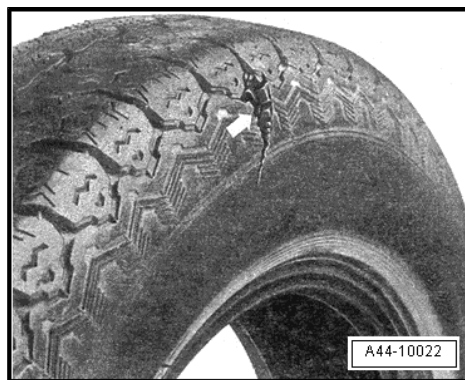
Double rupture -arrows- caused by pinching when driving over a curb. Often not detectable from outside.





1.8.4 Cuts

Cut Caused by a Sharp-Edged Obstacle -arrow-.



1.8.5 Damage from Foreign Bodies

Driving over hard, pointed objects like nails, screws and the like can pierce the tire.

This always leads to tire damage.

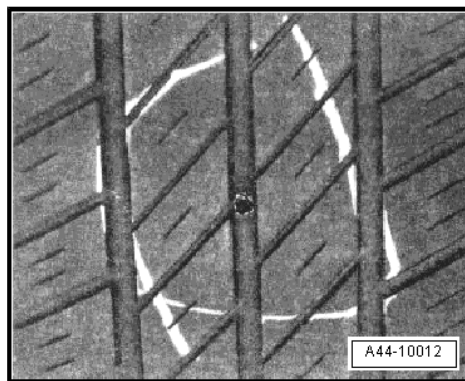
Damage from Imbedded Foreign Bodies

Frequently, the foreign object -marking- is so securely embedded in the tire that it will not free itself even at higher speeds. Due to this, it can act as a plug and seal the tire relatively well. The result is gradual loss of pressure which the driver does not notice immediately but which can lead to sudden and complete tire failure.



Note

No repair should be attempted on steel belted tires of which the structure has been punctured by a foreign body.



1.8.6 Air Loss

If the customer complains of loss of air from a tire, the tire must absolutely be checked for embedded foreign bodies.



Note

No repair should be attempted on steel belted tires of which the structure has been punctured by a foreign body.

Corrosion can develop on the steel wires. This will always lead to the separation of the rubber from the steel belt.

Generally, it cannot be determined when the foreign body was embedded. Therefore, the tire structure may already have been damaged due to driving with insufficient tire pressure.

Damaged belt wires will lead to separation of the rubber from the steel belt sooner or later. As a result, the tire can fail completely after a certain running time, long after the tire damage has occurred.

Tire damage caused by foreign objects is not covered by warranty.

1.8.7 Tire Pressure

Air pressure must be checked regularly. It is recommended to check the tire pressure every 14 days. The correct tire pressure is especially important during long trips or if a load must be car-





ried. A sporty driving style also requires correct or even slightly increased air pressure.

Slow Loss of Air Pressure

The slow loss of tire pressure is an especially tricky process because even experienced drivers often do not notice it.

The insufficient air pressure and the related increase in force required to flex the tire (inner friction) cause the tire material to heat up so much that the various components and rubber compounds can separate.

The final stage is usually the complete destruction of the tire. Refer to ➔ [“1.8.8 Damage from Low Tire Pressure”, page 37](#)

The cause for the slow pressure loss cannot always be determined because the tire is severely damaged and components of the tire are missing.

1.8.8 Damage from Low Tire Pressure

The most common causes of failure are small external damage, a defective valve or a leaky rim due to corrosion or damage.

Separation of Carcass and Rubber

Strong heating due to driving with substantially insufficient pressure led to overheating and subsequent separation of carcass from rubber material -arrows-. Refer to ➔ [“1.8.9 Tire Temperature, Rising When Tires Pressure Is Too Low”, page 38](#)

The tire shown here was sporadically driven with tire pressure insufficient for the load. Typical indications for this are the circumferential abrasions in the area of the bead caused by the rim flange and the discoloration. Small, furrowed folds are visible along the inner sidewall.

When the tire rolls, strong shear forces develop between the steel belt layers, especially at the ends of the belts.



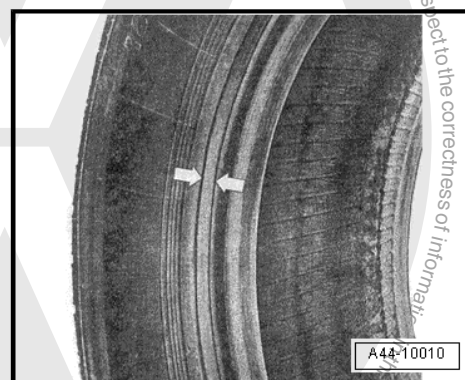
Tires with Wide Furrows Along the Circumference in the Area of the Bead

Wide furrows along the circumference in the area of the bead -arrows- indicate that the tire was driven with insufficient air pressure.

Driving a vehicle with insufficient tire pressure or ignoring or not recognizing tire damage can have serious consequences.

The tire can no longer withstand the forces developing during travel.

The function of the tire is limited by the defects mentioned above. The rubber compounds separate from one another, resulting in partial separation of tire components up to complete destruction.





Tires with Torn-out Tread

Such damage usually develops over a longer period of time. If an already damaged tire is exposed to high stress, the centrifugal force at higher speeds can tear components off the tire.

Illustration shows a tire with torn-out tread due to driving with insufficient tire pressure.



1.8.9 Tire Temperature, Rising When Tires Pressure Is Too Low

The diagram shows the temperature behavior of a tire at speed of 180 km/h.

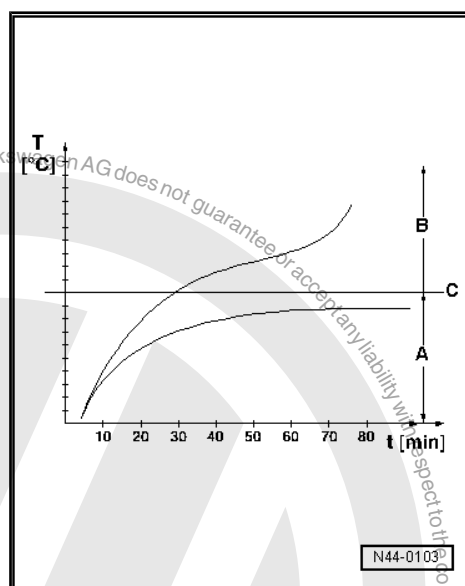
A - Normal range: When maintaining the specified tire pressure, the temperature remains stable.

B - Danger zone: When the air pressure is 0.3 bar below specification, the temperature rises to above 120°C (248°F) at higher speeds.

C - Critical temperature limit: The tire defect is triggered.

T - Temperature in °C.

t - Driving time in minutes.



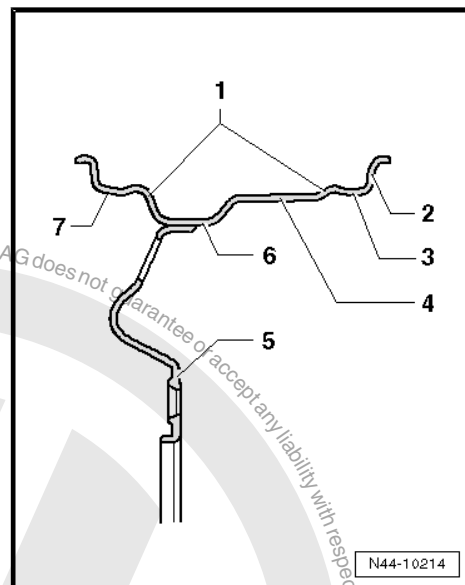


1.8.10 Damage Due to Mounting Error, Damage from Fitting the Tire

Bead Bundle Broken During Tire Inflation

Modern radial car tires are mounted only on safety rims. These have a hump -1- running along the shoulders.

- 1 - Hump (double hump H 2, extended double hump EH2)
- 2 - Rim flange
- 3 - Inner bead seat (e.g. oblique seat)
- 4 - Rim
- 5 - Wheel disc
- 6 - Bed
- 7 - Outer bead seat (e.g. oblique seat)



The hump prevents the tire from being pressed out of the bead seat during travel with insufficient tire pressure.

When the tire is inflated, the tire bead may not slip completely over the outer rim hump.

In this case, there is the danger that the bead bundle will be overstretched if the tire pressure is too high and the steel wires rupture partially or completely. Torn bead bundles are often not detectable from outside.

Special Information for Run-flat Tires

Rims with an extended double hump (extended hump EH2) are required for run-flat tires. Refer to ["1.11.1 Disc Wheel Structure", page 44](#). The extended double hump prevents the low tires from slipping from the rim when flat.



Note

To prevent damage when assembling, follow the instructions for mounting run-flat tires. Refer to ["Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information"](#).



WARNING

- ◆ **Tires with damaged bead bundles are not seated safely and securely on the rim. Such tires are a safety risk!**
- ◆ **In addition, there is the danger that a partially broken bead bundle tears during continued operation and the tire suddenly tears open. If the bead bundle breaks during inflation, the carcass will also be destroyed.**



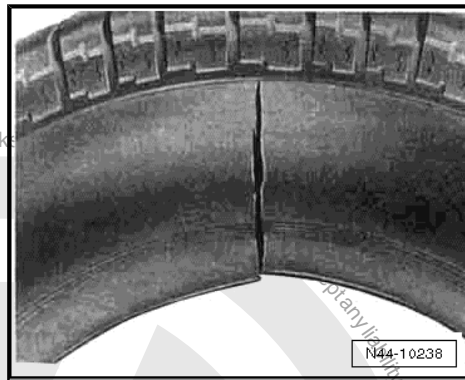
Tires with Broken Bead Bundle and Destroyed Carcass

Illustration shows a tire with broken bead bundle and destroyed carcass caused by an excessive pulling force during fitting.

Bead Damage by Faulty or Incorrect Wheel Mounting Using Tire Changers

The following mistakes when fitting tires can lead to severe tire damage.

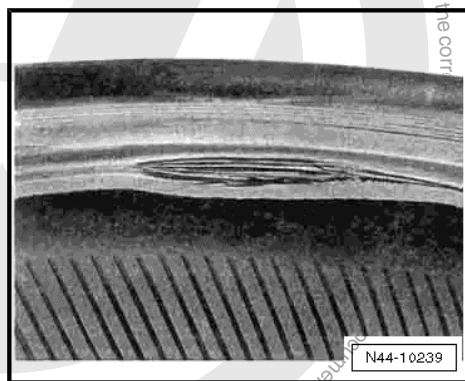
- ◆ When rolling in the upper bead on the tire changer, the opposing tire bead does not lie completely in its bed
⇒ [page 39](#) .
- ◆ When the fitting head was incorrectly adjusted.
- ◆ When the edge of the fitting roller rolls onto the bead.
- ◆ When the guide rollers are worn or have sharp edges.



Tire with Bead Split Open

In these cases, the bead, which is under great tension, can be cut into in the direction of rotation, split open and/or be crushed down to the bead bundle.

Frequently, mounting and run out marks from the guide rollers are identified in the damaged area.



Note

Both tire beads as well as the bead seats must always be coated with fitting paste .

If mounting damage is undetected, there is the danger that the tire will fail later when driving.

THEREFORE!

- ◆ Never fit a tire without fitting paste .
- ◆ Do not inflate the bead seating pressure above 3 bar.
- ◆ Do not inflate the tire filling pressure above 4 bar.
- ◆ After the tire has been fitted, reduce the air pressure to the specified value.

1.9 Tires with Emergency Running Characteristics

⇒ ["1.9.1 General Information", page 40](#)

⇒ ["1.9.2 Structure and Identification", page 41](#)

⇒ ["1.9.3 Installing/Conditions for Using Run-Flat Tires", page 42](#)

⇒ ["1.9.4 Repairing", page 43](#)

1.9.1 General Information

Run-flat tires have a reinforced sidewall in comparison to standard tires. This reduces the tendency for the sidewall to roll when there is a loss of pressure and prevents the sides of the tire from being pinched. This allows the vehicle to be driven while still maintaining close to normal driving behavior. It also eliminates the need to install the spare tire in dangerous situations such as on the highway or in poor weather conditions.



When there is a flat tire, the vehicle can still be driven to the nearest workshop (within approximately 50 km) as long as the vehicle speed (maximum 80 km/h) and driving style are adapted accordingly, see the Owner's Manual.

If there is a flat tire, the driver is ultimately responsible for checking the affected tire and deciding if it is possible to continue driving.

-I- Tires with Normal Pressure

1 - Run-flat tires (reinforced sidewall -red-)

2 - Standard tires

-II- Tires without Air Pressure

If the standard tire -2- loses pressure, the rim pushes the side wall together. When the tire is flat, the sidewall becomes extremely hot from the rolling motion and or is pinched. This destroys the tire.

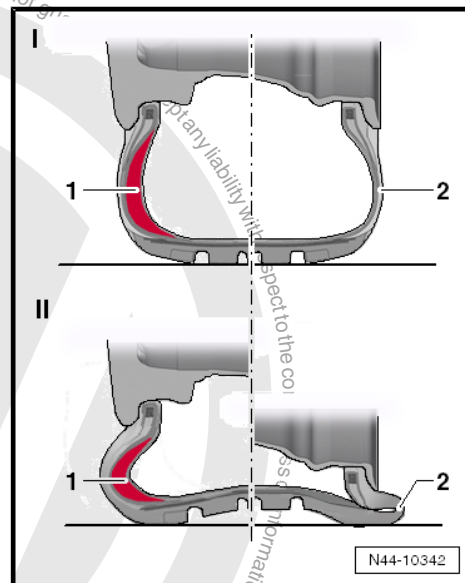
In run-flat tires -1-, the reinforced sidewall (-red-) supports the tire. Because of a special rubber compound and the reduced flexing of the reinforced sidewall, the tires does not become as hot and the vehicle can still be steered.



Note

Read and follow the special requirements for using run-flat tires. Refer to

⇒ ["1.9.3 Installing/Conditions for Using Run-Flat Tires", page 42](#)



1.9.2 Structure and Identification

Identification

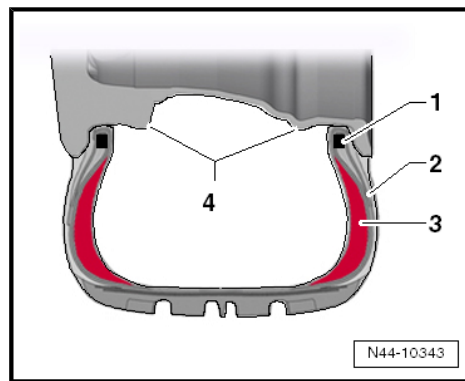
Run-flat tires are identified with the following abbreviations: DSST, Euforia, RFT, ROF, RSC, SSR or ZP. These abbreviations are located on the tire flank behind tire designation of the respective tire manufacturer.





Structure

- 1 - Bead with bead bundle.
- 2 - Sidewall
- 3 - Sidewall reinforcement.
- 4 - Rim with extended hump (EH2) on both sides - required when using run-flat tires.



1.9.3 Installing/Conditions for Using Run-Flat Tires



Caution

Using run-flat tires on Volkswagen vehicles is permitted only if the run-flat tire is supplied with the vehicle either as standard equipment or as an option.

Because pressure loss in a run-flat tire is not always visible, these tires should only be used on vehicles equipped with a tire pressure monitoring system. This system warns the driver when the tire pressure falls below a certain value.

The following are permitted:

Direct measuring systems, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information

Indirect measuring systems, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information

Only mount run-flat tires on disc wheels with an extended double hump (extended hump - EH2). Refer to ⇒ ["1.11.1 Disc Wheel Structure", page 44](#)

Read and follow the special mounting instructions. Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information

Do not install both run-flat tires and standard tires, even if the two tires on each axle will be the same.

A standard tire can only be installed in exception cases for a short time or a limited driving distance. The specific characteristics designed for driving with a flat tire will not be available. The driver must be informed of this.



Note

Always note the recommended tire make. Refer to ⇒ ["1.15 Recommended Summer Tires", page 55](#) and ⇒ ["1.17 Recommended Winter Tires", page 72](#)



1.9.4 Repairing



WARNING

- ◆ *Run-flat tires must be replaced after they have gone flat.*
- ◆ *Read and follow the special mounting instructions. Refer to ➔ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information*

General Information

- The wheel must be inspected before mounting, as with conventional wheel and tire systems.
- Check the wheel for damage after a flat tire (true running, axial run-out, other damage) to prevent more serious damage in the future, for example if driving through a pothole. Refer to ➔ [“1.6.9 Disc Wheel, Checking Radial and Lateral Run-Out”, page 25](#)
- Always replace a damaged wheel.

1.10 Rolling Resistance Tires

Tire deformation when rolling causes the vehicle to lose energy that makes the rolling resistance noticeable.

Deformation is significantly lowered on rolling resistance tires due to new construction and low-wear surface mixtures.

The recommended tire manufactures are summarized in the following chapter. Refer to ➔ [“1.15 Recommended Summer Tires”, page 55](#)



1.11 Disc Wheels

⇒ ["1.11.1 Disc Wheel Structure", page 44](#)

⇒ ["1.11.2 Disc Wheels, Identification", page 45](#)

⇒ ["1.11.3 Disc Wheels Rims, Pitch Circle Diameter", page 45](#)

⇒ ["1.11.4 Multipart Composite Wheels", page 45](#)

⇒ ["1.11.5 Light Alloy Wheels, Replacement Decoration Elements", page 46](#)

⇒ ["1.11.6 Light Alloy Wheels, Replacement Decoration Elements \(Zaragoza\)", page 46](#)

⇒ ["1.11.7 Light Alloy Wheels, Care and Maintenance", page 49](#)

⇒ ["1.11.8 Light Alloy Wheels, Preparing", page 50](#)

⇒ ["1.11.9 Rubber Valve", page 51](#)

1.11.1 Disc Wheel Structure

1 - Rim Flange

- ☐ Stop for the side tire bead

2 - Hump (H2) on Both Bead Seats

- ☐ Prevents the tire from slipping off the bead seat when driving around tight curves.
- ☐ An extended hump (EH2) is required when using run-flat tires. Refer to ["1.11.2 Disc Wheels, Identification", page 45](#).

3 - Bed

- ☐ Makes it easier to mount the tire.

A - Rim Width

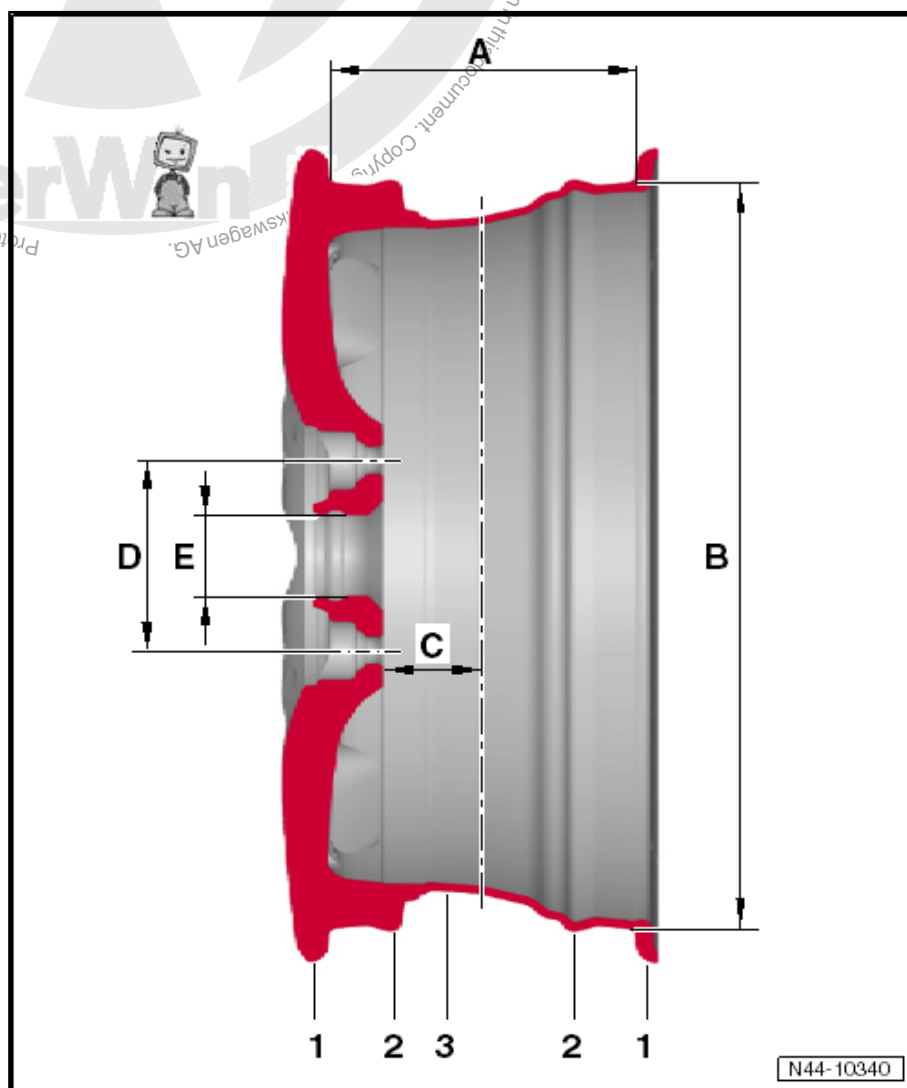
- ☐ Distance between the tire contact surfaces on both rim flanges.
- ☐ Dimensions in inches.

B - Rim Diameter

- ☐ Distance between the rim contact surfaces on the opposite tire shoulders.
- ☐ Dimensions in inches.

C - Offset

- ☐ Distance between the vertical wheel center and the inner wheel contact surface.
- ☐ Dimensions in mm.





D - Pitch Circle Diameter

- ☐ Circle diameter where the wheel bolt holes are located.
- ☐ Dimensions in mm.

E - Center Hole

- ☐ Enables centering.
- ☐ Dimensions in mm.

1.11.2 Disc Wheels, Identification

Several indications can be found on the disc wheels. The indications required for the clear identification of the disc wheel, can be seen in the following example:

Replacement Parts Number:	6E0 601 027 A
Size of disc wheel:	6 J x 15 6 - Rim width in inches J - Shape of rim flange 15 - Rim diameter in inches
Offset in mm:	43
Indication for hump on bead seat:	EH2 Extended Hump ¹⁾

¹⁾ Raised round hump on both bead seats. These ensure that when using a tire with emergency mode properties in airless condition, the tire does not slip from the bead seat. Wheels with EH2 are only necessary if tires with emergency mode properties are mounted. Refer to

⇒ ["1.9 Tires with Emergency Running Characteristics", page 40](#).

1.11.3 Disc Wheels Rims, Pitch Circle Diameter

Pitch Circle Diameter	Models		
100 mm	Polo 2010 ➤		
	Fox 2006 ➤		
112 mm	Phaeton 2003 ➤	Golf 2004 ➤	Golf Plus 2005 ➤
	Sharan from MY 11	Eos 2007 ➤	Cross Golf from 2007
	Jetta 2011 ➤	Touran 2003 ➤	Golf 2009 ➤
	Tiguan from 2008	Cross Touran from 2008	Golf wagon 2010 ➤
	Scirocco from MY 2009	Passat CC from MY 2009	CC from MY 10
	Passat Sedan from MY 11	Passat wagon 2011 ➤	Beetle from MY 12
130 mm	Touareg 2010 ➤		

1.11.4 Multipart Composite Wheels

Composite wheels consist of various parts.

The primary components are rims and wheel discs. These components are fastened to each other with special screws and a special procedure. This ensures the wheel's function, proper seal, safety and true running. These important requirements cannot be guaranteed under shop conditions and using shop tools.



WARNING

Composite wheels must not be disassembled or repaired!

1.11.5 Light Alloy Wheels, Replacement Decoration Elements

These disc wheels are equipped with replaceable decoration elements. Note the following when installing.

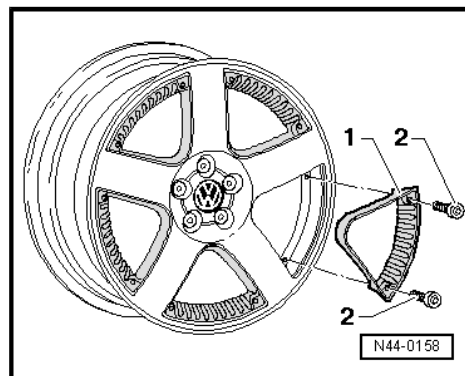
– Clean the thread in the disc wheel before screwing in the new bolts.

– Use new bolts only!

1 - Decoration element

2 - Hex socket bolts

Tightening specification for self-locking hex socket bolts: 5 Nm



1.11.6 Light Alloy Wheels, Replacement Decoration Elements (Zaragoza)

Special tools and workshop equipment required

◆ Cartridge Gun -V.A.G 1628-

◆ Trim Removal Wedge -3409-

◆ Hot Air Blower -V.A.G 1416-

Materials

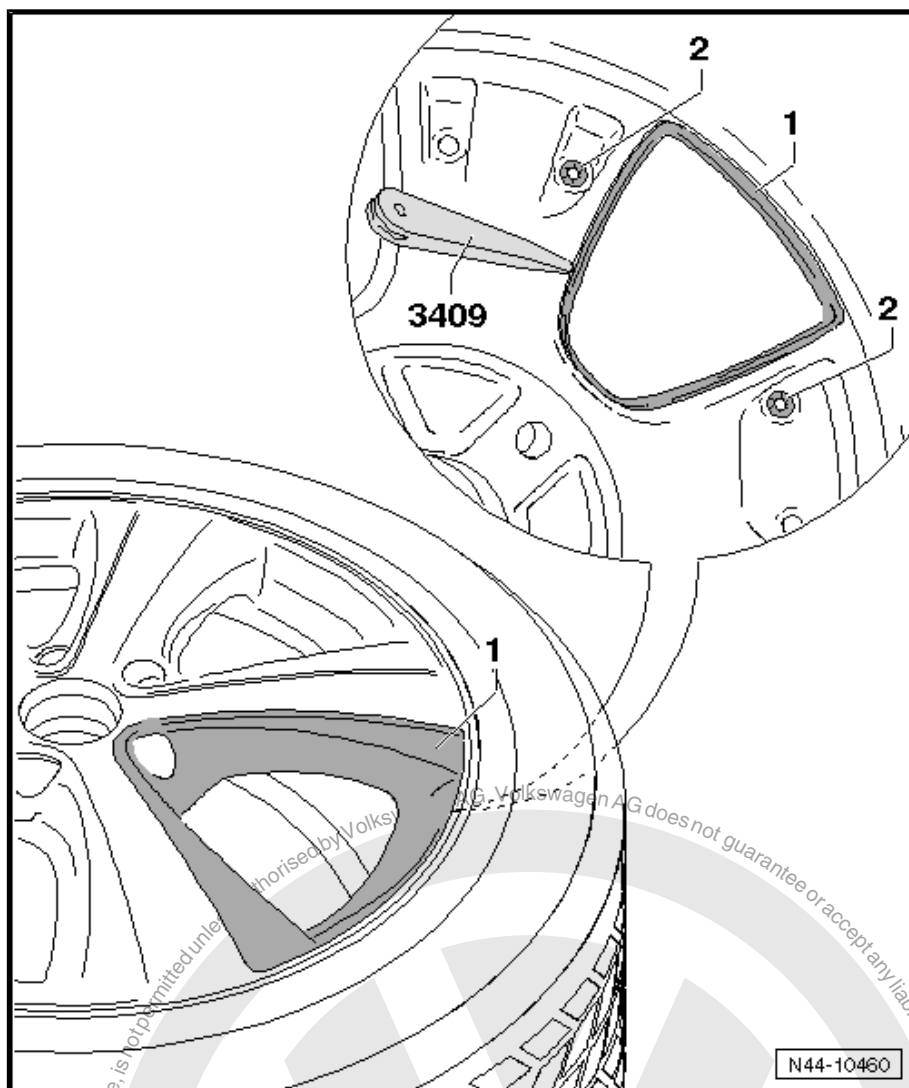
◆ 1K window adhesive	-DH 009 100 A2-
◆ Silicone remover	-LSE 020 100 A3-

Decorative Trim, Removing



Note

It is not possible to remove the decorative trim without damaging it.



- Loosen the lock washers -2- from the inside of the light alloy wheel.
- Warm the decorative trim -1- from the outside using the -V.A.G 1416- .



Caution

Do not overheat tires and light alloy wheels.

- Loosen the decorative trim -1- from the inside of the light alloy wheel using the -3409- .
- Grab under one corner from the outside and pull the decorative trim -1- off the light alloy wheel.



Note

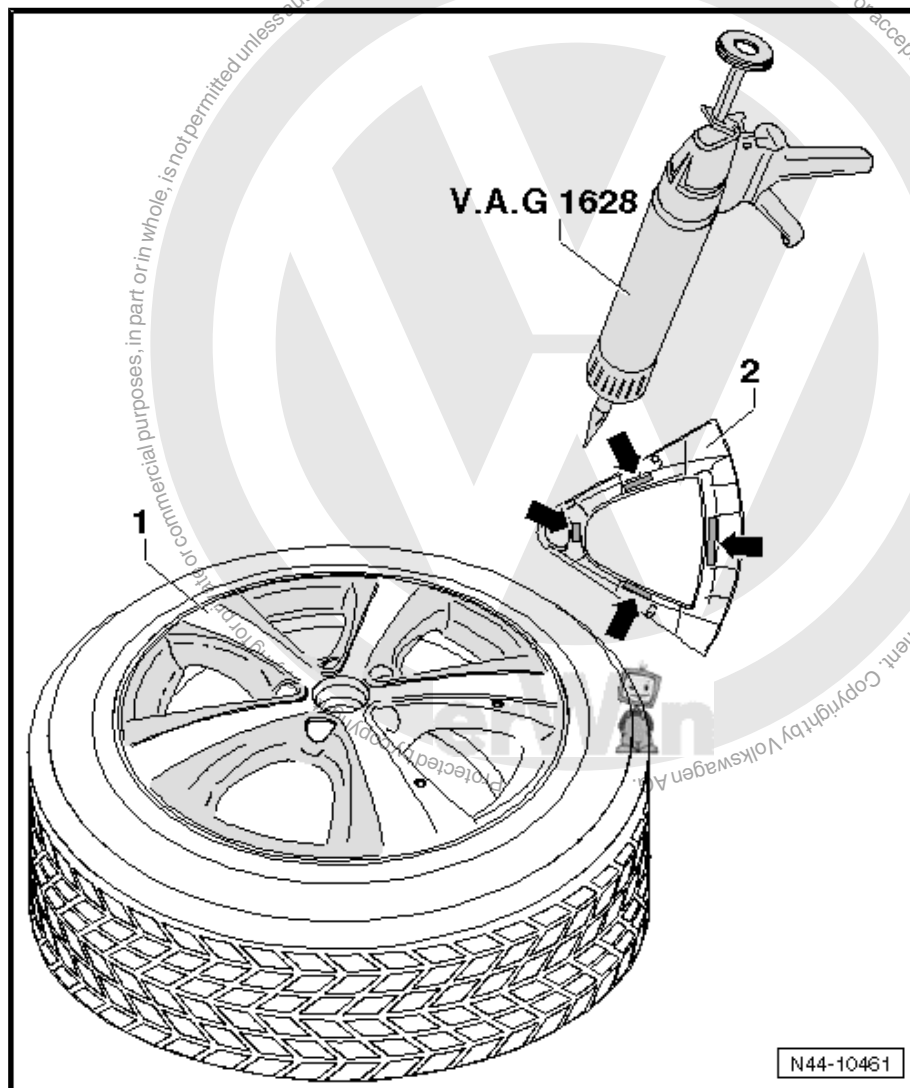
- ◆ *The adhesive points for the PUR label are cut into the light alloy wheel.*
- ◆ *The remaining material serves as the adhesive base for the new decorative trim.*
- ◆ *The new decorative trim can be installed immediately.*



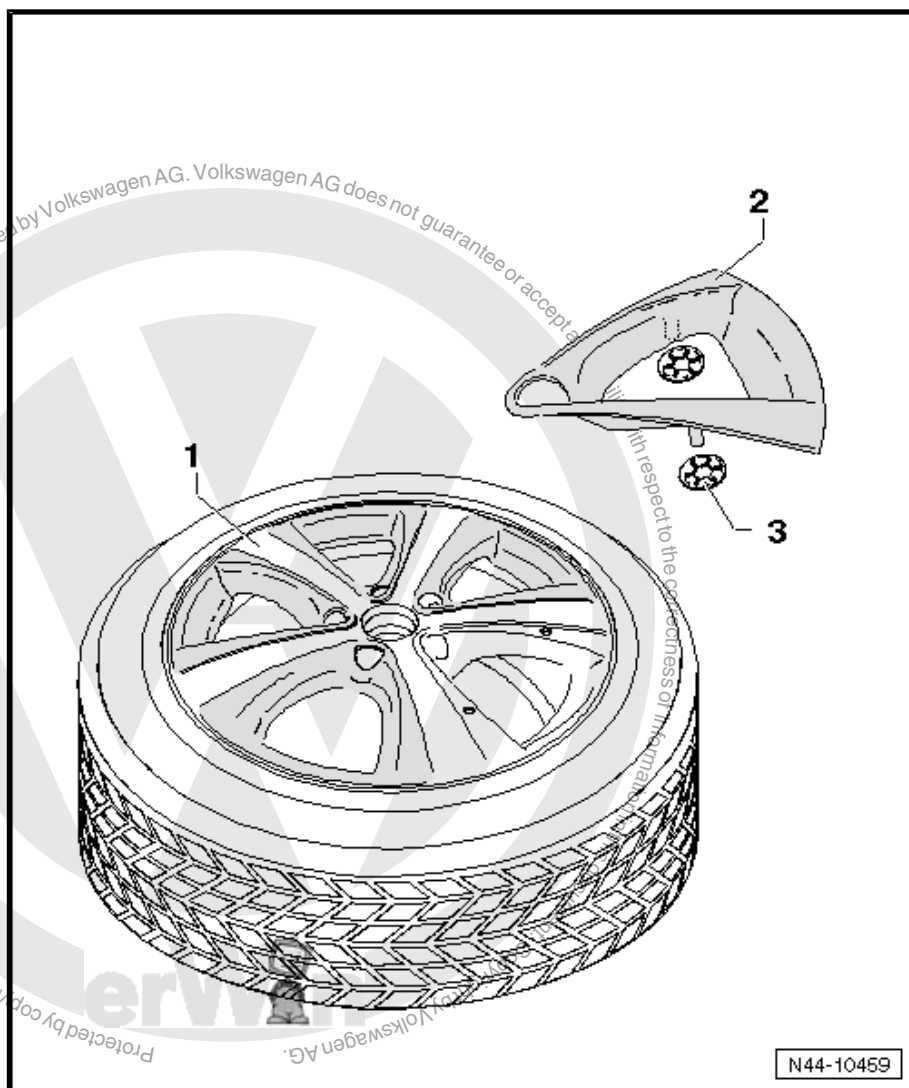
Decorative Trim, Installing

These light alloy wheels are equipped with replaceable decoration elements. Note the following when installing.

- ◆ Make sure the adhesion area on the light alloy wheels and decorative trim are free of dust and grease.
- ◆ Clean the adhesion area with silicone remover -LSE 020 100 A3- .



- Apply 1K window adhesive -DH 009 100 A2- on the adhesive surfaces -arrows- using the -V.A.G 1628- .
- Adhesive point: length = approximately 25 mm and diameter = approximately 10 mm



- Press the decorative trim -2- into the light alloy wheels -1- using firm pressure.
- Secure the decorative trim -2- to the inside of the light alloy wheel with lock washers -3-.

Minimum curing time: 3 hours at room temperature of minimum 15 °C (59 °F).



WARNING

The light alloy wheel must be balanced again. Refer to ⇒ "1.6.4 Stationary Balancing Machine", page 21 .

1.11.7 Light Alloy Wheels, Care and Maintenance

To maintain the decorative appearance of light alloy wheels for a long time, regular care is necessary.

In particular, road salt and dust from brake abrasion must be thoroughly washed off every 2 weeks. Otherwise, the paint of the light alloy wheel will be attacked.



Cleaning Agent

The following are appropriate cleaning agents:

- ◆ Water or water and soft soap.
- ◆ Water and vinegar essence.
- ◆ Light alloy wheel cleaning agents without acids or harsh solvents.

Do not exceed the soaking time of the cleaning agent.

The shorter the specified soaking time is, the stronger and more aggressive the cleaning solution is.

Paint Damage

Fix paint damage as soon as possible. Refer to
⇒ ["1.11.8 Light Alloy Wheels, Preparing", page 50](#).

Removing Adhesive Residue from Glued Balance Weights on Light Alloy Rims

- ◆ Harsh solvents and acids attack the paint on light alloy wheels and the surface of the wheel becomes matte and milky. These agents therefore must not be used.
- ◆ To remove adhesive residue on light alloy wheels, use light alloy cleansers or benzene-based cleanser. Do not exceed the soaking time of the cleaning agent.
- ◆ After cleaning or removing adhesive residue on the tires, they must be rinsed again with water.

1.11.8 Light Alloy Wheels, Preparing



WARNING

- ◆ *Do not repair damaged rims by heating, welding or adding or removing material.*
- ◆ *Do not repair damaged or deformed rims or rims with cracked or deformed bolt holes.*
- ◆ *Only prepare wheels with tested and specified original paint materials.*
- ◆ *No warranty claims can be made against the manufacturer after preparing rims.*

Do not repair rims that have cracks forming on the edges. Replace them immediately.

Cutting work, application of heat and welding applications of any kind are not permitted.

Reshaping material is not permitted.

The true running and axial run-out deviations before preparation must not exceed the manufacturing tolerance of 0.8 mm.

Only cast light alloy wheels may be primed. These wheels have the material identification Alsi xx on the inside.

Forged wheels may only be painted.

Preparation is limited to the painted surfaces.

Wheels that have been worn smooth that only have a clear coat may not be repaired.

Only surface damage on the visible side of the wheel may be repaired.



Damage must not be more than 1 mm deep.

Up to 50 mm of the rim flange may be removed and filled.

1.11.9 Rubber Valve

- 1 - Valve body
- 2 - Valve core
- 3 - Valve cap

Valve Body

The rubber valve for tubeless tires is designed to seal air-tight in the hole in the rim. The elastic material of the rubber body presses itself tightly into the hole in the rim.

When valves with threaded metal feet are used, a rubber seal is used to seal the rim. The area around the edge of the valve hole is a sealing area. Therefore, they must be free of rust, dirt and damage.

Valve Core

The valve core has the most important job in the valve. It creates a seal and enables the regulation of the air pressure. The small plate seal on the valve core can only do its job when it is free of impurities, dirt and moisture. The compressed air system must be free of water and oil!

Valve Cap

A valve cap must always be screwed onto the valves. It prevents dirt from getting into the valve. Dirt which may be in the valve would reach the seal of the valve plate when the tire is inflated and cause a leak.

The valve must be replaced every time a new tire is fitted.

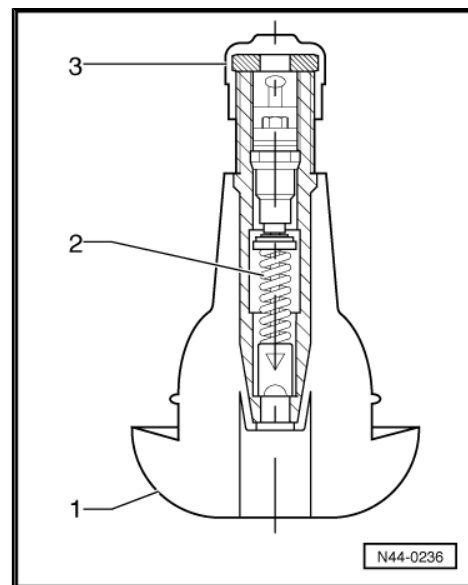
If the vehicle is driven without caps on the valves, there is the danger that dirt may get into the valve. This leads to gradual loss of air and therefore lead to the destruction of the tire:

- ◆ Separation of carcass and rubber, refer to [⇒ page 37](#).
- ◆ Wide circumferential furrows in the area of the bead, refer to [⇒ page 37](#).
- ◆ Disintegrated tread or torn-out tread, refer to [⇒ page 38](#).



WARNING

An air-tight seal is ensured only if the valve cap is secured tightly.



1.12 Wheels, Mounting

[⇒ "1.12.1 Rotating", page 51](#)

[⇒ "1.12.2 Changing and Mounting", page 52](#)

[⇒ "1.12.3 Emergency Wheels, Using", page 53](#)

1.12.1 Rotating

Vehicles with front-wheel drive experience more tread wear on the front wheels due to the increased stress on them.

In order for all 4 wheels on the vehicle to have the same service life, it is recommended to rotate the front and rear wheels.





Be sure not to mix up tires, which have the direction of rotation marked on them.

Diagonal rotation is possible only with non-directional tires. This wheel rotation is especially advantageous for heel-and-toe wear. Refer to ➔ ["1.5.2 Heel and Toe Wear", page 18](#) .

If heel-and-toe wear has already progressed very far and the tread is more than 50% worn, only slight improvement can be achieved and rotation is no longer recommended. The elasticity of the tread blocks declines and the heel-and-toe wear does not progress.

1.12.2 Changing and Mounting

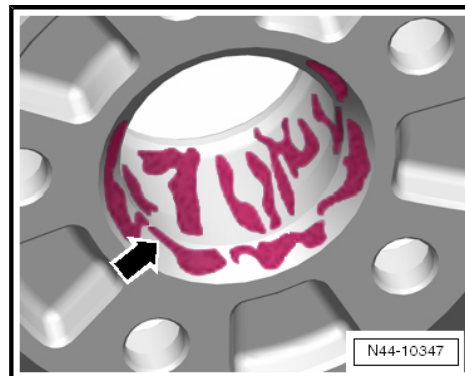
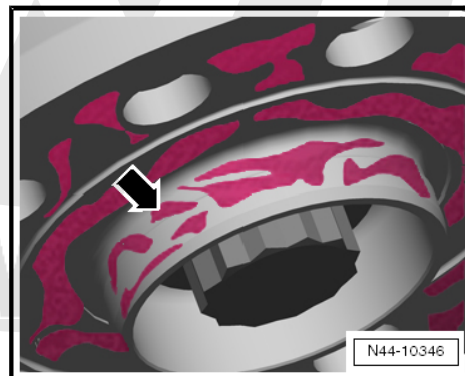
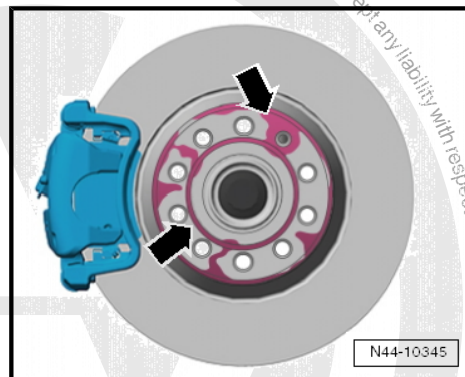


WARNING

The secure seating of the wheel bolts and the wheels is only ensured if the instructions and checks below are followed.

- Make sure the contact surfaces -arrows- on the brake disc are free from corrosion and dirt.
- Make sure the contact surfaces -arrow- on the brake disc center seat are free of corrosion and dirt.
- Make sure the contact surface -arrow- on the wheel inner side (rim) as well as the central seat in the rim is free of corrosion and dirt.
- The spherical caps * in the wheel bolt openings and the wheel bolt threads must likewise be free of corrosion, dirt, oil or grease.

* The spherical cap is the curved surface of a section of a sphere.





- Check whether the wheel bolts can be easily screwed in by hand. The threads of the wheel bolts must not touch the holes in the brake disc -arrow-.

If the thread of the wheel bolt touches the hole -arrow-, turn the brake disc relative to the wheel accordingly.



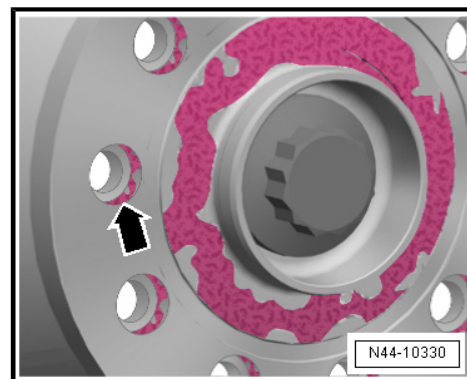
Note

If necessary, clean any dirt and corrosion, oil or grease off the surfaces and thread in the wheel hub and/or wheel bolts.



WARNING

Heavily corroded, difficult to turn or damaged wheel bolts must be replaced.



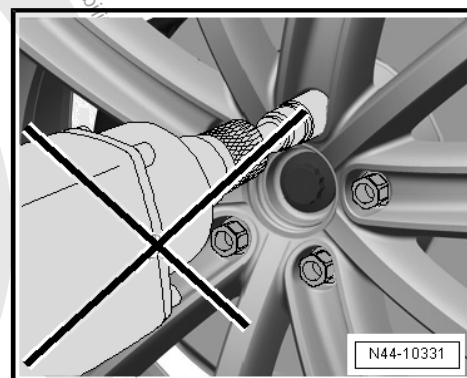
Wheel Mounting

- Apply corrosion protection to the wheel centering seat. Refer to ➤ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .
- 1 - When mounting a wheel, tighten all wheel bolts uniformly by hand.
 - 2 - Tighten the wheel bolts diagonally to 30 Nm.
 - 3 - Place the vehicle on the floor and tighten all of the wheel bolts in a diagonal sequence to the specification with a torque wrench. Refer to ➤ Suspension, Wheels, Steering; Rep. Gr. 44 ; Specifications .



WARNING

Never use an impact wrench to install the wheel bolts!



1.12.3 Emergency Wheels, Using

Inform your customer as necessary of the notes listed in the following and also, if necessary, refer to the vehicle owner's manual.

The notes listed in the following also apply to spare wheels, e.g. 7 J x 16 with 205/55 R 16 tires, which are marked with the lettering "MAX 80 km/h" or "MAX 50 mph" on a yellow sticker.



Note

- ◆ Depending on vehicle equipment, e.g. Passats with light alloy wheels and 225 tires, have such a spare wheel with a sticker as described above in place of an emergency wheel.
- ◆ Emergency wheel/spare wheel is designed only for sporadic and brief use. Therefore it is to be replaced with the normal wheel again as soon as possible.
- ◆ After mounting the emergency wheel/spare wheel, tire inflation pressure must be checked as soon as possible. The correct tire inflation pressure can be found in the following tire inflation pressure table on the respective vehicle or the respective manual: Maintenance.
- ◆ Always pay attention to speed information on the wheel ("MAX 80 km/h" or "MAX 50 mph").
- ◆ Wide Open Throttle (WOT) acceleration, strong braking and rapid driving around curves should be prevented.
- ◆ Never drive with more than one emergency wheel/spare wheel.
- ◆ It is not permissible to use snow chains on the emergency wheel for technical reasons.
- ◆ If vehicle must be driven with snow chains, therefore the emergency wheel must be installed on the rear axle for a breakdown on the front axle. The rear wheel freed up must then be mounted in place of the faulty front wheel.

1.13 Wheel Repair Kit

The current replacement part numbers for the tire sealant and compressor for each vehicle type can be found in the Electronic Parts Catalog (ETKA) under main group 0 - accessories.

1.14 Spare Tires and Emergency Wheels

Observe notes for the use of emergency wheels

⇒ ["1.12.3 Emergency Wheels, Using", page 53](#).

Refer to the Electronic Parts Catalog (ETKA) for replacement part number.

Model	Disk Wheel	Tires		
	Dimension	Dimension	Manufacturer	Tread
Beetle, type 5C1 (16)	3 J x 16 ET 15	T125/90 R 16 98M	Continental	CST 17
Golf, type 5K (1K)	3 1/2 J x 18 ET 25,5	T125/70 R 18 99M	Goodyear Continental	Conv. Spare CST 17
	3 1/2 J x 16 ET 25,5 1)	T125/70 R 16 96M	Hankook Continental Komho Maxxis	S300 CST 17 121 M9599N
	3 1/2 J x 16 ET 25,5 1)	T125/70 R 16 96M	Hankook Continental Komho Maxxis	S300 CST 17 121 M9599N
Golf Wagon, type AJ5	3 1/2 J x 18 ET 25,5	T125/70 R 18 99M	Goodyear Continental	Conv. Spare CST 17
Jetta, type 162	3 1/2 J x 18 ET 25,5	T125/70 R 18 99M	Continental	CST 17



Model	Disk Wheel	Tires		
	Dimension	Dimension	Manufacturer	Tread
Tiguan Type 5N	4 J x 18 ET 27,5	T145/80 R 18 99M	Continental	CST 17
Eos, type 1F	3 1/2 J x 18 ET 25,5	T125/70 R 18 99M	Continental	CST 17
	3 1/2 J x 16 ET 25,5 2)	T125/70 R 16 96M	Continental Hankook Maxxis	CST 17 S300 M9500N
Touareg, type 7P	6 1/2 J x 18 ET 28	195/75 R 18 106P collapsible spare tire	Vredestein	Spacemaster

1) not for 4MOTION and trailer equipment

2) not for trailer equipment

1.15 Recommended Summer Tires

⇒ ["1.15.1 Beetle from MY 12", page 56](#)

⇒ ["1.15.2 New Beetle Cabriolet, from MY 2003", page 56](#)

⇒ ["1.15.3 Golf, from MY 2009", page 57](#)

⇒ ["1.15.4 GTI, from MY 2009", page 58](#)

⇒ ["1.15.5 Golf R, from MY 10", page 59](#)

⇒ ["1.15.6 Jetta Wagon, from MY 2010", page 59](#)

⇒ ["1.15.7 Jetta, from MY 2006", page 60](#)

⇒ ["1.15.8 Tiguan, from MY 2008", page 62](#)

⇒ ["1.15.9 Eos, from MY 2006", page 62](#)

⇒ ["1.15.10 Passat Sedan, from MY 2006", page 63](#)

⇒ ["1.15.11 Passat Wagon, from MY 2006", page 64](#)

⇒ ["1.15.12 Passat CC, from MY 2009", page 65](#)

⇒ ["1.15.13 Phaeton, from MY 2003", page 65](#)

⇒ ["1.15.14 Touareg, from MY 2010", page 66](#)

⇒ ["1.15.15 Touareg Hybrid, from MY 11", page 66](#)

Notes About Recommended Summer Tires

- ◆ Tires are one of the most important construction elements of a vehicle and significantly influence driving safety. Therefore, the numerous requirements detailed in the DIN standards and the W.d.K. (Trade association of the German rubber industry) and tire manufacturers' guidelines must be fulfilled. In addition, extensive tests are performed by Volkswagen before the tires are approved for original equipment on our vehicles.
- ◆ The following tire manufacturers meet the listed requirements. We recommend using tires made by these manufacturers when installing new tires.
- ◆ The following is a list of all tire manufacturers whose tires are installed on VW vehicles at the time of manufacture.
- ◆ The listed tire manufacturers and tire profiles are the most current at the time of this publication. Just like any other product, tires are constantly being developed further. It is possible that changes in tire manufacturers and tire profiles were made



after this list was published. If a tire profile is no longer available, we recommend using the subsequent profile of the tire manufacturer.

- ♦ Pay attention to the important information regarding run-flat tires. Refer to ➔ ["1.9 Tires with Emergency Running Characteristics", page 40](#).
- ♦ Pay attention to the important information regarding tires with self-sealing characteristics "ContiSeal". Refer to ➔ Suspension, Wheels, Steering; Rep. Gr. 44 : Self-Sealing Tires "ContiSeal".

1.15.1 Beetle from MY 12

Please observe the notes about recommended summer tires
➔ [page 55](#)

Tire Size	Manufacturer	Tread Designation
215/60 R16 95T	Bridgestone	B250 Eco
215/60 R16 95H	Bridgestone	B250 Eco
215/60 R16 95V	Continental	ProContact
215/55 R17 94V	Bridgestone	ER 300
235/45 R18 94V	Hankook	Ventus Prime 2
	Continental	ProContact
235/40 R19 92V	Continental	Sport Contact 5

1.15.2 New Beetle Cabriolet, from MY 2003

Please observe the notes about recommended summer tires.
Refer to ➔ [page 55](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91T	Michelin	Energy 3	
	Continental	Eco Contact 3	
	Goodyear	GT 3	
	Hankook	K406	
195/65 R 15 91H	Firestone	F580	
	Continental	CH 90	
	Pirelli	P 7	
195/65 R 15 91V	Michelin	Energy 3	
	Goodyear	NCT 5	
	Continental	Premium Contact	
	Pirelli	P 6000	
	Bridgestone	B 390	
	Bridgestone	ER 300	
205/55 R 16 91V	Continental	Sport Contact 2	
	Bridgestone	ER 30	
	Bridgestone	ER 300	
	Michelin	Energy 3	
	Goodyear	NCT 5	
	Pirelli	P 7	
	Hankook	K105	
	Dunlop	Sport 01A	



Tire Size	Manufacturer	Tread Designation	Comments
225/45 R 17 91W/Y	Michelin	Pilot Sport	
	Bridgestone	Potenza RE 040	
	Continental	Sport Contact	
	Pirelli	P 6000	
	Dunlop	SP 9090	

1.15.3 Golf, from MY 2009

Please observe the notes about recommended summer tires.
Refer to ➤ [page 55](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91T	Continental	Eco Contact 3	
	Hankook	K415	
	Michelin	Energy 3	
	Goodyear	GT3	
	Michelin	Energy Saver	
195/65 R 15 91H	Pirelli	P 6000	Rolling resistance tires, refer to ➤ "1.10 Rolling Resistance Tires", page 43 .
	Hankook	K415	
	Goodyear	NCT 5	
	Continental	Eco Contact 3	
	Michelin	Energy 3	
	Bridgestone	ER 300	
	Bridgestone	B 390	
	Michelin	Energy Saver	
195/65 R 15 95H	Michelin	Energy 3	
	Bridgestone	B 390	
195/65 R 15 91V	Pirelli	P 6000	
	Goodyear	NCT 5	
	Michelin	Energy 3	
	Continental	Premium Contact	
	Bridgestone	B 390	
	Bridgestone	ER 300	
205/55 R 16 91H	Michelin	Energy Saver	Rolling resistance tires, refer to ➤ "1.10 Rolling Resistance Tires", page 43 .
	Goodyear	Excellence	
	Continental	Premium Contact	
	Dunlop	SP Sport Fast Response	
205/55 R 16 91V	Pirelli	P 7	
	Hankook	K105	
	Goodyear	NCT 5	
	Michelin	Energy 3	
	Dunlop	SP Sport 01A	



Tire Size	Manufacturer	Tread Designation	Comments
	Continental	Sport Contact 2	Rolling resistance tires, refer to ⇒ "1.10 Rolling Resistance Tires", page 43 .
	Bridgestone	ER 30	
	Bridgestone	ER 300	
	Dunlop	SP Sport Fast Response	
	Michelin	Energy Saver	
	Goodyear	Excellence	
205/55 R 16 94V Extra Load	Bridgestone	ER 300	
	Michelin	Energy 3	
	Michelin	Energy Saver	
	Goodyear	NCT 5	
	Goodyear	Excellence	
	Bridgestone	ER 300 RFT	Run-flat tires, refer to ⇒ "1.9 Tires with Emergency Running Characteristics", page 40 .
225/45 R 17 91W	Michelin	Premacy HP	
	Bridgestone	RE 050	
	Continental	Sport Contact 2	
	Dunlop	SP Sport 01A	
225/40 R 18 92Y	Bridgestone	RE 050A	
	Michelin	Pilot Exalto 2	
	Dunlop	SportMaxx GT	
	Continental	Sport Contact 2	

1.15.4 GTI, from MY 2009

Please observe the notes about recommended summer tires.
Refer to ⇒ [page 55](#)

Tire Size	Manufacturer	Tread Designation
205/55 R 16 91V	Pirelli	P 7
	Michelin	Energy Saver
	Bridgestone	ER 300
	Continental	Sport Contact 2
	Dunlop	SP Fast Response
205/55 R 16 94V	Goodyear	NCT 5
	Bridgestone	ER 30
	Bridgestone	ER 300
	Michelin	Energy 3A
225/45 R 17 91W	Michelin	Premacy HP
	Bridgestone	RE 050
	Continental	Sport Contact 2
	Dunlop	SP Sport 01A
225/40 R 18 92Y	Bridgestone	RE 050A
	Michelin	Pilot Exalto 2
	Dunlop	SportMaxx GT
	Continental	Sport Contact 2





Tire Size	Manufacturer	Tread Designation
235/35 R 19 91Y	Dunlop	SportMaxx GT

1.15.5 Golf R, from MY 10

Please observe the notes about recommended summer tires.
Refer to ➤ [page 55](#)

Tire Size	Manufacturer	Tread Designation
225/45 R 17 91W	Michelin	Premacy HP
	Bridgestone	RE 050
	Continental	Sport Contact 2
	Dunlop	SP Sport 01A
225/40 R 18 92Y	Bridgestone	RE 050A
	Michelin	Pilot Exalto 2
	Dunlop	SportMaxx GT
	Continental	Sport Contact 2
235/35 R 19 91Y	Dunlop	SportMaxx GT

1.15.6 Jetta Wagon, from MY 2010

Please observe the notes about recommended summer tires.
Refer to ➤ [page 55](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91T	Continental	Eco Contact 3	Rolling resistance tires, refer to ➤ "1.10 Rolling Resistance Tires" , page 43
	Hankook	K415	
	Michelin	Energy 3	
	Goodyear	GT3	
	Michelin	Energy Saver	
195/65 R 15 91H	Pirelli	P 6000	Rolling resistance tires, refer to ➤ "1.10 Rolling Resistance Tires" , page 43
	Hankook	K415	
	Goodyear	NCT 5	
	Continental	Eco Contact 3	
	Michelin	Energy 3	
	Bridgestone	ER 300	
	Bridgestone	B 390	
195/65 R 15 95H	Michelin	Energy 3	Rolling resistance tires, refer to ➤ "1.10 Rolling Resistance Tires" , page 43
	Bridgestone	B 390	
195/65 R 15 91V	Pirelli	P 6000	
	Goodyear	NCT 5	
	Michelin	Energy 3	
	Continental	Premium Contact	
	Bridgestone	B 390	



Tire Size	Manufacturer	Tread Designation	Comments
205/55 R 16 91H	Bridgestone	ER 300	Rolling resistance tires, refer to ⇒ "1.10 Rolling Resistance Tires" , page 43
	Michelin	Energy Saver	
	Goodyear	Excellence	
	Continental	Premium Contact	
205/55 R 16 91V	Dunlop	SP Sport Fast Response	Rolling resistance tires, refer to ⇒ "1.10 Rolling Resistance Tires" , page 43
	Pirelli	P 7	
	Hankook	K105	
	Goodyear	NCT 5	
	Michelin	Energy 3	
	Dunlop	SP Sport 01A	
	Continental	Sport Contact 2	
	Bridgestone	ER 30	
	Bridgestone	ER 300	
	Dunlop	SP Sport Fast Response	
	Michelin	Energy Saver	
	Goodyear	Excellence	
205/55 R 16 94V Extra Load	Bridgestone	ER 300	Run-flat tires, refer to ⇒ "1.9 Tires with Emergency Running Characteristics" , page 40
	Michelin	Energy 3	
	Michelin	Energy Saver	
	Goodyear	NCT 5	
	Goodyear	Excellence	
	Bridgestone	ER 300 RFT	
225/45 R 17 91W	Michelin	Premacy HP	
	Bridgestone	RE 050	
	Continental	Sport Contact 2	
	Dunlop	SP Sport 01A	
225/40 R 18 92Y	Bridgestone	RE 050A	
	Michelin	Pilot Exalto 2	
	Dunlop	SportMaxx GT	
	Continental	Sport Contact 2	

1.15.7 Jetta, from MY 2006

Please observe the notes about recommended summer tires.

Refer to ⇒ [page 55](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91T	Continental	Eco Contact 3	Rolling resistance tires, refer to ⇒ "1.10 Rolling Resistance Tires" , page 43
	Hankook	K415	
	Michelin	Energy 3	
	Goodyear	GT3	
	Michelin	Energy Saver	



Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91H	Pirelli	P 6000	Rolling resistance tires, refer to ⇒ "1.10 Rolling Resistance Tires", page 43
	Hankook	K415	
	Goodyear	NCT 5	
	Continental	Eco Contact 3	
	Michelin	Energy 3	
	Bridgestone	ER 300	
	Bridgestone	B 390	
	Michelin	Energy Saver	
195/65 R 15 95H	Michelin	Energy 3	
	Bridgestone	B 390	
195/65 R 15 91V	Pirelli	P 6000	
	Goodyear	NCT 5	
	Michelin	Energy 3	
	Continental	Premium Contact	
	Bridgestone	B 390	
	Bridgestone	ER 300	
205/55 R 16 91H	Michelin	Energy Saver	Rolling resistance tires, refer to ⇒ "1.10 Rolling Resistance Tires", page 43
	Goodyear	Excellence	
	Continental	Premium Contact	
	Dunlop	SP Sport Fast Response	
205/55 R 16 91V	Pirelli	P 7	Rolling resistance tires, refer to ⇒ "1.10 Rolling Resistance Tires", page 43
	Hankook	K105	
	Goodyear	NCT 5	
	Michelin	Energy 3	
	Dunlop	SP Sport 01A	
	Continental	Sport Contact 2	
	Bridgestone	ER 30	
	Bridgestone	ER 300	
	Dunlop	SP Sport Fast Response	
	Michelin	Energy Saver	
205/55 R 16 94V Extra Load	Goodyear	Excellence	Run-flat tires, refer to ⇒ "1.9 Tires with Emergency Running Characteristics", page 40
	Bridgestone	ER 300	
	Michelin	Energy 3	
	Michelin	Energy Saver	
	Goodyear	NCT 5	
	Goodyear	Excellence	
225/45 R 17 91W	Bridgestone	ER 300 RFT	
	Michelin	Premacy HP	
	Bridgestone	RE 050	
	Continental	Sport Contact 2	
225/40 R 18 92Y	Dunlop	SP Sport 01A	
	Bridgestone	RE 050A	



Tire Size	Manufacturer	Tread Designation	Comments
	Michelin	Pilot Exalto 2	
	Dunlop	SportMaxx GT	
	Continental	Sport Contact 2	

1.15.8 Tiguan, from MY 2008

Please observe the notes about recommended summer tires.

Refer to ➔ [page 55](#)

Tire Size	Manufacturer	Tread Designation	Comments
215/65 R 16 98H	Pirelli	P6	
	Michelin	Diamaris LT	
	Bridgestone	Dueler HP Sport	
	Goodyear	Eagle LS	
	Hankook	DynaPro RA23	
235/55 R 17 99H	Goodyear	Excellence	
	Michelin	Diamaris LT	
	Continental	Pro Contact	
	Bridgestone	Dueler HP Sport	
	Dunlop	SP Sport 01	
235/50 R 18 97H	Michelin	Latitude THP	For USA
	Pirelli	Scorpion ZA	
235/50 R 18 97V	Goodyear	Eagle F1	
	Continental	CrossContact UHP	
	Dunlop	SP Sport 01	
	Bridgestone	Dueler HP Sport	
255/40 R 19 96V	Dunlop	SportMaxx GT	
255/40 R 19 96W	Pirelli	P Zero	

1.15.9 Eos, from MY 2006

Please observe the notes about recommended summer tires.

Refer to ➔ [page 55](#)

Tire Size	Manufacturer	Tread Designation	Comments
215/55 R 16 97W	Michelin	Primacy	
	Dunlop	SP Sport 01	
	Bridgestone	ER 300	
	Goodyear	Excellence	
	Pirelli	P7	
235/45 R 17 94W	Continental	Sport Contact 3	Run-flat tires "ContiSeal", refer to ➔ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .
235/45 R 17 97W	Continental	Sport Contact 2	
	Pirelli	P Zero Rosso	
	Bridgestone	ER 050A	
	Dunlop	SP Sport 01	



Tire Size	Manufacturer	Tread Designation	Comments
235/40 R 18 95W	Continental	Sport Contact 3	Run-flat tires "ContiSeal", refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .
235/40 R 18 95Y	Pirelli	P Zero Rosso	
	Dunlop	SP Sport 01	
	Michelin	Pilot Sport 2	
	Continental	Sport Contact 2	

1.15.10 Passat Sedan, from MY 2006

Please observe the notes about recommended summer tires.
Refer to ⇒ [page 55](#)

Tire Size	Manufacturer	Tread Designation	Comments
205/55 R 16 91H	Goodyear	Excellence	Rolling resistance tires, refer to ⇒ "1.10 Rolling Resistance Tires" , page 43 .
	Michelin	Energy Saver	
	Dunlop	SP Sport Fast Response	
	Michelin	Primacy	
	Dunlop	SP Sport 01A	
	Goodyear	NCT -6	
	Bridgestone	ER 300	
	Continental	Premium Contact2	
205/55 R 16 94V	Michelin	Primacy	
	Michelin	Energy Saver	
	Goodyear	Excellence	
	Continental	Sport Contact 2	
	Bridgestone	ER 300	
215/55 R 16 97V	Bridgestone	ER 300 RFT	Run-flat tires, refer to ⇒ "1.9 Tires with Emergency Running Characteristics" , page 40 .
215/55 R 16 97W	Michelin	Primacy	
	Dunlop	SP Sport 01A	
	Dunlop	SP Fast Response	
	Bridgestone	ER 300	
	Continental	Premium Contact	
	Continental	Premium Contact 2	
	Pirelli	P7	
	Goodyear	Excellence	
235/45 R 17 94W	Continental	Sport Contact 3	Run-flat tires "ContiSeal", refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information
235/45 R 17 97W	Pirelli	P Zero Rosso	
	Continental	Sport Contact 2	
	Dunlop	SP Sport 1	
	Bridgestone	RE 050A	



Tire Size	Manufacturer	Tread Designation	Comments
235/40 R 18 95W	Continental	Sport Contact 3	Run-flat tires "ContiSeal", refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information
235/40 R 18 95Y	Pirelli	P Zero Rosso	
	Continental	Sport Contact 2	
	Michelin	Pilot Sport 2	
	Dunlop	SP Sport 1	

1.15.11 Passat Wagon, from MY 2006

Please observe the notes about recommended summer tires.

Refer to ⇒ [page 55](#)

Tire Size	Manufacturer	Tread Designation	Comments
205/55 R 16 91H	Goodyear	Excellence	Rolling resistance tires, refer to ⇒ "1.10 Rolling Resistance Tires" page 43
	Michelin	Energy Saver	
	Dunlop	SP Sport Fast Response	
	Michelin	Primacy	
	Dunlop	SP Sport 01A	
	Goodyear	NCT -6	
	Bridgestone	ER 300	
	Continental	Premium Contact2	
205/55 R 16 94V	Michelin	Primacy	
	Michelin	Energy Saver	
	Goodyear	Excellence	
	Continental	Sport Contact 2	
	Bridgestone	ER 300	
215/55 R 16 97V	Bridgestone	ER 300 RFT	Run-flat tires, refer to ⇒ "1.9 Tires with Emergency Running Characteristics" , page 40 .
215/55 R 16 97W	Michelin	Primacy	
	Dunlop	SP Sport 01A	
	Dunlop	SP Fast Response	
	Bridgestone	ER 300	
	Continental	Premium Contact	
	Continental	Premium Contact 2	
	Pirelli	P7	
	Goodyear	Excellence	
235/45 R 17 94W	Continental	Sport Contact 3	Run-flat tires "ContiSeal", refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information
235/45 R 17 97W	Pirelli	P Zero Rosso	
	Continental	Sport Contact 2	
	Dunlop	SP Sport 1	
	Bridgestone	RE 050A	



Tire Size	Manufacturer	Tread Designation	Comments
235/40 R 18 95W	Continental	Sport Contact 3	Run-flat tires "ContiSeal", refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information
235/40 R 18 95Y	Pirelli	P Zero Rosso	
	Continental	Sport Contact 2	
	Michelin	Pilot Sport 2	
	Dunlop	SP Sport 1	

1.15.12 Passat CC, from MY 2009

Please observe the notes about recommended summer tires.
Refer to ⇒ [page 55](#)

Tire Size	Manufacturer	Tread Designation	Comments
235/45 R 17 97W	Continental	Sport Contact 3	
	Bridgestone	RE 050A	
	Pirelli	P Zero	
	Dunlop	SP Sport 1	
235/45 R 17 94W	Continental	Sport Contact 3	Run-flat tires "ContiSeal", refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information
235/40 R 18 95W	Continental	Sport Contact 3	
235/35 R 19 91Y	Continental	Sport Contact 3	

1.15.13 Phaeton, from MY 2003

Please observe the notes about recommended summer tires.
Refer to ⇒ [page 55](#)

Tire Size	Manufacturer	Tread Designation
235/60 R 16 100Y	Bridgestone	RE 030
	Dunlop	SP 9000
235/55 R 17 99Y	Bridgestone	RE 030
	Goodyear	NCT 5
	Dunlop	SP 9000
	Dunlop	SportMaxx TT
	Michelin	Primacy
235/50 R 18 101Y XL	Bridgestone	RE 040
	Dunlop	SP Sport 01
	Dunlop	SP 9000
255/45 R 18 103Y XL	Bridgestone	RE 040
	Dunlop	SP 9000
	Michelin	Primacy
245/45 R 19 102Y XL	Dunlop	Sport Maxx GT
255/40 R 19 100Y XL	Pirelli	P Zero r
	Dunlop	SportMaxx
	Dunlop	SP Sport 01
275/40 R 19 105Y	Michelin	Primacy



XL means "Extra Load". Refer to
⇒ ["2.10 Winter Tires, Extra Load, Speed Rating V", page 87](#) .

1.15.14 Touareg, from MY 2010

Please observe the notes about recommended summer tires.
Refer to ⇒ [page 55](#)

Tire Size	Manufacturer	Tread Designation
235/65 R 17,108V	Bridgestone	Dueller HPS
	Pirelli	Scorpio Verde
	Michelin	Latitude Diamaris
255/60 R 17,106V	Goodyear	Eagle F1
255/55 R 18,109V	Michelin	Latitude Tour HP
255/55 R 18 109W XL	Goodyear	Eagle F1
	Bridgestone	Dueller HP Sport
	Michelin	Latitude Sport
265/50 R 19,110V XL	Michelin	Latitude Sport
265/50 R 19 110W XL	Pirelli	Scorpio Verde
	Bridgestone	Dueller HP Sport
275/45 R 20 110W XL	Goodyear	Eagle F1
	Michelin	Latitude Sport
275/40 R 21 107W XL	Dunlop	Quattro Maxx

XL means "Extra Load". Refer to
⇒ ["2.10 Winter Tires, Extra Load, Speed Rating V", page 87](#) .

1.15.15 Touareg Hybrid, from MY 11

Please observe the notes about recommended summer tires.
Refer to ⇒ [page 55](#)

Tire Size	Manufacturer	Tread Designation
255/55 R 18,109V	Michelin	Latitude Tour HP
255/55 R 18 109W XL	Goodyear	Eagle F1
	Bridgestone	Dueller HP Sport
	Michelin	Latitude Sport
265/50 R 19,110V XL	Michelin	Latitude Sport
265/50 R 19 110W XL	Pirelli	Scorpio Verde
	Bridgestone	Dueller HP Sport

XL means "Extra Load". Refer to
⇒ ["2.10 Winter Tires, Extra Load, Speed Rating V", page 87](#) .



1.16 Recommended All Season Tires

- ⇒ ["1.16.1 Beetle from MY 12", page 67](#)
- ⇒ ["1.16.2 New Beetle Cabriolet, from MY 2003", page 68](#)
- ⇒ ["1.16.3 Golf, from MY 2009", page 68](#)
- ⇒ ["1.16.4 Jetta Wagon, from MY 2010", page 68](#)
- ⇒ ["1.16.5 Jetta, from MY 2006", page 69](#)
- ⇒ ["1.16.6 Jetta, MY 11", page 69](#)
- ⇒ ["1.16.7 Tiguan, from MY 2008", page 70](#)
- ⇒ ["1.16.8 Eos, from MY 2006", page 70](#)
- ⇒ ["1.16.9 Passat Sedan, from MY 2006", page 70](#)
- ⇒ ["1.16.10 Passat Wagon, from MY 2006", page 71](#)
- ⇒ ["1.16.11 Passat CC, from MY 2009", page 71](#)
- ⇒ ["1.16.12 Phaeton, from MY 2003", page 71](#)
- ⇒ ["1.16.13 Touareg, from MY 2010", page 71](#)

Notes about recommended all season tires

- ◆ Tires are one of the most important construction elements of a vehicle and significantly influence driving safety. Therefore, the numerous requirements detailed in the DIN standards and the W.d.K. (Trade association of the German rubber industry) and tire manufacturers' guidelines must be fulfilled. In addition, extensive tests are performed by Volkswagen before the tires are approved for original equipment on our vehicles.
- ◆ The following tire manufacturers meet the listed requirements. We recommend using tires made by these manufacturers when installing new tires.
- ◆ The following is a list of all tire manufacturers whose tires are installed on VW vehicles at the time of manufacture.
- ◆ The listed tire manufacturers and tire profiles are the most current at the time of this publication. Just like any other product, tires are constantly being developed further. It is possible that changes in tire manufacturers and tire profiles were made after this list was published. If a tire profile is no longer available, we recommend using the subsequent profile of the tire manufacturer.
- ◆ Pay attention to the important information regarding run-flat tires. Refer to
⇒ ["1.9 Tires with Emergency Running Characteristics", page 40](#).
- ◆ Pay attention to the important information regarding tires with self-sealing characteristics "ContiSeal". Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Self-Sealing Tires "ContiSeal".

1.16.1 Beetle from MY 12

Please observe the notes about recommended all season tires

⇒ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
215/60 R16 95V	Goodyear	Vector 4 Seasons	
235/45 R18 94H	Hankook	Optimo H426	For USA
235/40 R19 92H	Continental	ProContact	



1.16.2 New Beetle Cabriolet, from MY 2003

Please observe the notes about recommended all season tires.

Refer to ➤ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91H	Dunlop	SP All Season M2	For Europe
	Goodyear	Vector EV2	
	Continental	CH 95	For USA
	Michelin	MXV4 Plus	
	Goodyear	Eagle LS	
205/55 R 16 91H	Michelin	MXV4 S8	For Japan
	Continental	Pro Contact	For USA
	Goodyear	Eagle LS	
	Michelin	MXV4 S8	
	Bridgestone	EL 400	
225/45 R 17 91H	Michelin	MXM 4	For USA
	Goodyear	Eagle RSA	
225/45 R 17 91H	Michelin	MXM 4	For Japan

1.16.3 Golf, from MY 2009

Please observe the notes about recommended all season tires.

Refer to ➤ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91H	Dunlop	AS M2	
	Goodyear	Vector EV2	
205/55 R 16 91H	Michelin	MXV 4 S8	For USA
	Goodyear	Eagle LS	
	Continental	Pro Contact	
	Bridgestone	EL 400	
	Hankook	Optima H725H	
205/55 R 16 94V	Goodyear	Vector 2	
225/45 R 17 91H	Michelin	MXM 4	For USA
	Continental	Pro Contact	
	Goodyear	Eagle RSA	
225/40 R 18 92H	Bridgestone	RE 050	For USA

1.16.4 Jetta Wagon, from MY 2010

Please observe the notes about recommended all season tires.

Refer to ➤ [page 67](#) .

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91H	Dunlop	AS M2	
	Goodyear	Vector EV2	
	Michelin	MXV 4 S8	
	Goodyear	Eagle LS	



Tire Size	Manufacturer	Tread Designation	Comments
205/55 R 16 91H	Continental	Pro Contact	For USA
	Michelin	MXV 4 S8	
	Goodyear	Eagle LS	
	Continental	Pro Contact	
	Bridgestone	EL 400	
	Hankook	Optima H725H	
205/55 R 16 94V	Goodyear	Vector 2	
225/45 R 17 91H	Michelin	MXM 4	For USA
	Continental	Pro Contact	
	Goodyear	Eagle RSA	

1.16.5 Jetta, from MY 2006

Please observe the notes about recommended all season tires.

Refer to ➤ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91H	Dunlop	AS M2	For USA
	Goodyear	Vector EV2	
	Michelin	MXV 4 S8	
	Goodyear	Eagle LS	
	Continental	Pro Contact	
205/55 R 16 91H	Michelin	MXV 4 S8	For USA
	Goodyear	Eagle LS	
	Continental	Pro Contact	
	Bridgestone	EL 400	
	Hankook	Optima H725H	
205/55 R 16 94V	Goodyear	Vector 2	
225/45 R 17 91H	Michelin	MXM 4	For USA
	Continental	Pro Contact	
	Goodyear	Eagle RSA	

1.16.6 Jetta, MY 11

Please observe the notes about recommended all season tires.

Refer to ➤ [page 67](#)

Tire Size	Manufacturer	Tread Designation
195/65 R 15 91H	Continental	Pro Contact
205/55 R 16 91H	Continental	Pro Contact
	Hankook	Optimo H725A
225/45 R 17 91H	Continental	Pro Contact



1.16.7 Tiguan, from MY 2008

Please observe the notes about recommended all season tires.

Refer to ➔ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
215/65 R 16 98H	Dunlop	GT Touring AS	For USA
	Continental	4 X 4 Contact	
	Michelin	Latitude THP	
	Pirelli	Scorpion	
215/60 R 17 96H	Goodyear	Vector 4 Seasons	For USA
235/55 R 17 99H	Michelin	Latitude THP	
	Continental	Pro Contact	
235/50 R 18 97H/V	Dunlop	SP 01 AS	

1.16.8 Eos, from MY 2006

Please observe the notes about recommended all season tires.

Refer to ➔ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
205/55 R16 94V	Goodyear	Vector 2	For USA
215/55 R 16 97H	Goodyear	Eagle LS2	
235/45 R 17 97H	Michelin	MXM 4	For USA
	Goodyear	Eagle LS	
	Continental	Pro Contact	
	Pirelli	P6 4Season	

1.16.9 Passat Sedan, from MY 2006

Please observe the notes about recommended all season tires.

Refer to ➔ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
205/55 R 16 94V	Goodyear	Vector 2	For USA
215/55 R 16 97H	Goodyear	Eagle LS	
	Continental	Pro Contact	
215/55 R 16 97V	Michelin	MXM 4	Run-flat tires, refer to ➔ "1.9 Tires with Emergency Running Characteristics" , page 40 .
	Bridgestone	ER 300 RFT	
235/45 R 17 97H	Michelin	MXM 4	For USA
	Continental	Pro Contact	
	Goodyear	Eagle LS2	
235/40 R 18 95H	Pirelli	P 6 4Season	For USA



1.16.10 Passat Wagon, from MY 2006

Please observe the notes about recommended all season tires.
Refer to ➤ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
205/55 R 16 94V	Goodyear	Vector 2	
215/55 R 16 97H	Goodyear	Eagle LS	For USA
	Continental	Pro Contact	
	Michelin	MXM 4	
215/55 R 16 97V	Bridgestone	ER 300 RFT	Run-flat tires, refer to ➤ "1.9 Tires with Emergency Running Characteristics", page 40 .
235/45 R 17 97H	Michelin	MXM 4	For USA
	Continental	Pro Contact	
	Goodyear	Eagle LS2	
235/40 R 18 95H	Pirelli	P 6 4Season	For USA

1.16.11 Passat CC, from MY 2009

Please observe the notes about recommended all season tires.
Refer to ➤ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
235/45 R 17 94H	Continental	Pro Contact	For USA only. Run-flat tires "ContiSeal", refer to ➤ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .
235/40 R 18 95H	Continental	Pro Contact	

1.16.12 Phaeton, from MY 2003

Please observe the notes about recommended all season tires.
Refer to ➤ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
235/55 R 17 103H XL	Michelin	MXM 4	For USA
255/45 R 18 103H XL	Michelin	MXM 4	

XL means "Extra Load". Refer to
➤ ["2.10 Winter Tires, Extra Load, Speed Rating V", page 87](#).

1.16.13 Touareg, from MY 2010

Please observe the notes about recommended all season tires.
Refer to ➤ [page 67](#)

Tire Size	Manufacturer	Tread Designation	Comments
255/60 R 17, 106V	Dunlop	GT Touring All Seasons	
255/55 R 18 109H XL	Michelin	Latitude Tour HP	For USA
	Pirelli	Scorpio Verde All Seasons	
	Goodyear	Eagle LS2	
265/50 R 19 110H XL	Michelin	Latitude Tour HP	



Tire Size	Manufacturer	Tread Designation	Comments
	Pirelli	Scorpio Verde All Seasons	For USA
	Goodyear	Eagle LS2	
275/45 R20 110H XL	Goodyear	Eagle LS2	For USA

XL means "Extra Load". Refer to
⇒ ["2.10 Winter Tires, Extra Load, Speed Rating V", page 87](#) .

1.17 Recommended Winter Tires

- ⇒ ["1.17.1 Beetle from MY 12", page 73](#)
- ⇒ ["1.17.2 New Beetle Cabriolet, from MY 2003", page 73](#)
- ⇒ ["1.17.3 Golf, from MY 2009", page 73](#)
- ⇒ ["1.17.4 GTI, from MY 2009", page 74](#)
- ⇒ ["1.17.5 Golf R, from MY 10", page 74](#)
- ⇒ ["1.17.6 Jetta Wagon, from MY 2010", page 74](#)
- ⇒ ["1.17.7 Jetta, from MY 2006", page 74](#)
- ⇒ ["1.17.8 Tiguan, from MY 2008", page 75](#)
- ⇒ ["1.17.9 Eos, from MY 2006", page 75](#)
- ⇒ ["1.17.10 Passat Sedan, from MY 2006", page 75](#)
- ⇒ ["1.17.11 Passat Wagon, from MY 2006", page 76](#)
- ⇒ ["1.17.12 Passat CC, from MY 2009", page 77](#)
- ⇒ ["1.17.13 Phaeton, from MY 2003", page 77](#)
- ⇒ ["1.17.14 Touareg, from MY 2010", page 77](#)

Notes about recommended winter tires

- ◆ Tires are one of the most important construction elements of a vehicle and significantly influence driving safety. Therefore, the numerous requirements detailed in the DIN standards and the W.d.K. (Trade association of the German rubber industry) and tire manufacturers' guidelines must be fulfilled. In addition, extensive tests are performed by Volkswagen before the tires are approved for original equipment on our vehicles.
- ◆ The following tire manufacturers meet the listed requirements. We recommend using tires made by these manufacturers when installing new tires.
- ◆ The following is a list of all tire manufacturers whose tires are installed on VW vehicles at the time of manufacture.
- ◆ The listed tire manufacturers and tire profiles are the most current at the time of this publication. Just like any other product, tires are constantly being developed further. It is possible that changes in tire manufacturers and tire profiles were made after this list was published. If a tire profile is no longer available, we recommend using the subsequent profile of the tire manufacturer.
- ◆ Pay attention to the important information regarding run-flat tires. Refer to
⇒ ["1.9 Tires with Emergency Running Characteristics", page 40](#) .
- ◆ Pay attention to the important information regarding tires with self-sealing characteristics "ContiSeal". Refer to ⇒ [Suspension](#)



sion, Wheels, Steering; Rep. Gr. 44 ; Self-Sealing Tires“Con-
tiSeal” .

1.17.1 Beetle from MY 12

The information on recommended winter tires was not available
at the time of the editorial deadline.

1.17.2 New Beetle Cabriolet, from MY 2003

Please observe the notes about recommended winter tires. Refer
to ➔ [page 72](#)

Tire Size	Manufacturer	Tread Designation
195/65 R 15 91T	Continental	TS 790 Winter Contact
	Dunlop	SP Winter Sport M3
	Goodyear	Ultra Grip 6
	Michelin	Alpin
	Pirelli	Winter 190
195/65 R 15 91H	Continental	TS 790 Winter Contact
	Michelin	Pilot Alpin
	Nokian	NRW
	Vredestein	Wintrac
	Goodyear	Eagle UG GW3
205/55 R 16 91H	Continental	TS 790 Winter Contact
	Dunlop	SP Winter Sport M3
	Michelin	Pilot Alpin
	Pirelli	Winter 210
	Vredestein	Wintrac

1.17.3 Golf, from MY 2009

Please observe the notes about recommended winter tires. Refer
to ➔ [page 72](#)

Tire Size	Manufacturer	Tread Designation
195/65 R 15 91H	Dunlop	Winter Sport 3D
	Goodyear	Ultra Grip GW 3
	Continental	TS 810
	Vredestein	Snowtrac 2
	Nokian	WR
	Bridgestone	LM25
205/55 R 16 91H	Dunlop	Winter Sport 3D
	Goodyear	Ultra Grip Performance
	Pirelli	W210
205/50 R 17 93H	Dunlop	Winter Sport 3D



1.17.4 GTI, from MY 2009

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation
205/55 R 16 91H	Dunlop	Winter Sport 3D
	Goodyear	Ultra Grip Performance
	Pirelli	W210
205/50 R 17 93H	Dunlop	Winter Sport 3D

1.17.5 Golf R, from MY 10

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation
205/50 R 17 93H	Dunlop	Winter Sport 3D

1.17.6 Jetta Wagon, from MY 2010

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation
195/65 R 15 91H	Dunlop	Winter Sport 3D
	Goodyear	Ultra Grip GW 3
	Continental	TS 810
	Vredestein	Snowtrac 2
	Nokian	WR
	Bridgestone	LM25
205/55 R 16 91H	Dunlop	Winter Sport 3D
	Goodyear	Ultra Grip Performance
	Pirelli	W210
205/50 R 17 93H	Dunlop	Winter Sport 3D

1.17.7 Jetta, from MY 2006

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91Q	Michelin	X-Ice	• Only for Japan: 1.6 FSI and 2.0L FSI engines
195/65 R 15 91H	Continental	TS 810	
	Dunlop	Winter Sport 3D	
	Goodyear	Eagle UG GW 3	
	Bridgestone	LM25	
	Pirelli	Winter 210	
	Nokian	WR	
205/55 R 16 91H	Dunlop	Winter Sport 3D	



Tire Size	Manufacturer	Tread Designation	Comments
	Goodyear	Ultra Grip Performance	
	Pirelli	W210	
205/50 R 17 93H	Dunlop	Winter Sport 3D	

1.17.8 Tiguan, from MY 2008

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation	Comments
215/65 R 16 98H	Pirelli	Winter Sport 210	
	Dunlop	Winter Sport 3D	
	Vredestein	Snowtrac	

1.17.9 Eos, from MY 2006

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation	Comments
205/55 R 16 94H	Dunlop	Winter Sport 3D	
205/50 R 17 93H	Dunlop	Winter Sport 3D	
	Michelin	Pilot Alpin2	
	Continental	TS810	Run-flat tires "ContiSeal", refer to ➤ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .

1.17.10 Passat Sedan, from MY 2006

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91Q	Michelin	X-Ice	• Only for Japan: 1.6 FSI and 2.0L FSI engines
205/55 R 16 91H	Dunlop	Winter Sport 3D	
	Pirelli	Winter 210	
	Goodyear	Eagle UG GW3	
205/55 R 16 94H	Dunlop	Winter Sport 3D	
	Pirelli	Winter 210	
	Nokian	WR G2	
	Dunlop	Winter Sport M3 DSST	
			Run-flat tires, refer to ➤ "1.9 Tires with Emergency Running Characteristics" , page 40
205/50 R 17 93H	Dunlop	Winter Sport 3D	
	Continental	TS810	
			Run-flat tires "ContiSeal", refer to ➤ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information



Tire Size	Manufacturer	Tread Designation	Comments
215/55 R 16 97Q XL	Michelin	X-Ice	• Only for Japan: 2.0L FSI and 2.0L FSI turbo engines
235/45 R 17 94Q	Michelin	X-Ice	• Only for Japan: 2.0L FSI turbo engines and V6 3.2L FSI 4Motion
235/45 R 17 94H	Dunlop	Winter Sport M3	

XL means "Extra Load". Refer to
⇒ ["2.10 Winter Tires, Extra Load, Speed Rating V", page 87](#) .

1.17.11 Passat Wagon, from MY 2006

Please observe the notes about recommended winter tires. Refer to ⇒ [page 72](#)

Tire Size	Manufacturer	Tread Designation	Comments
195/65 R 15 91Q	Michelin	X-Ice	• Only for Japan: 1.6 FSI and 2.0L FSI engines
205/55 R 16 91H	Dunlop	Winter Sport 3D	
	Pirelli	Winter 210	
	Goodyear	Eagle UG GW3	
205/55 R 16 94H	Dunlop	Winter Sport 3D	Run-flat tires, refer to ⇒ "1.9 Tires with Emergency Running Characteristics", page 40 .
	Pirelli	Winter 210	
	Nokian	WR G2	
	Dunlop	Winter Sport M3 DSST	
205/50 R 17 93H	Dunlop	Winter Sport 3D	Run-flat tires "ContiSeal", refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information
	Continental	TS810	
215/55 R 16 97Q XL	Michelin	X-Ice	• Only for Japan: 2.0L FSI and 2.0L FSI turbo engines.
235/45 R 17 94Q	Michelin	X-Ice	• Only for Japan: 2.0L FSI turbo engines and V6 3.2L FSI 4Motion.
235/45 R 17 94H	Dunlop	Winter Sport M3	

XL means "Extra Load". Refer to
⇒ ["2.10 Winter Tires, Extra Load, Speed Rating V", page 87](#) .



1.17.12 Passat CC, from MY 2009

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation	Comments
205/50 R 17 93H	Continental	TS810	Run-flat tires "ContiSeal", refer to ➤ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .

1.17.13 Phaeton, from MY 2003

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation
235/55 R 17 99H	Dunlop	Winter Sport 3D
235/50 R 18 101H XL	Dunlop	Winter Sport M2
	Dunlop	Winter Sport 3D
245/45 R 19,102V XL	Dunlop	Winter Sport 3D

XL means "Extra Load". Refer to ➤ [2.10 Winter Tires, Extra Load, Speed Rating V](#) , page 87 .

1.17.14 Touareg, from MY 2010

Please observe the notes about recommended winter tires. Refer to ➤ [page 72](#)

Tire Size	Manufacturer	Tread Designation
235/65 R 17,108V	Dunlop	Winter Sport 3D
255/55 R 18,109V	Dunlop	Winter Sport 3D
	Michelin	Latitude Alpin HP
265/50 R 19,110V	Dunlop	Winter Sport 3D





2 Description and Operation

- ⇒ [“2.1 Side Wall Lettering”, page 79](#)
- ⇒ [“2.2 Tire Lettering Explanation”, page 80](#)
- ⇒ [“2.3 Tires, Speed Ratings”, page 82](#)
- ⇒ [“2.4 Cracking”, page 83](#)
- ⇒ [“2.5 Tires, Storing”, page 83](#)
- ⇒ [“2.6 Tires, Aging”, page 84](#)
- ⇒ [“2.7 Tire Sizes, AWD Vehicles”, page 85](#)
- ⇒ [“2.8 Winter Tires”, page 85](#)
- ⇒ [“2.9 Winter Tires with Speed Rating V”, page 86](#)
- ⇒ [“2.10 Winter Tires, Extra Load, Speed Rating V”, page 87](#)
- ⇒ [“2.11 Winter Tires, Maximum Speeds for V and Extra Load”, page 87](#)
- ⇒ [“2.12 Tires, Reinforced, Extra Load”, page 88](#)
- ⇒ [“2.13 Snow Chains”, page 89](#)

2.1 Side Wall Lettering

Example: Continental ContiPremiumContact 2

1 - Size Designation

- ☐ For example 205/55 R 16
16, refer to [page 80](#)

2 - Position of Tread Wear Indicators (TWI)

3 - Manufacturer (Trade Name)

4 - Construction

- ☐ Radial - radially-oriented fibers in carcass.
- ☐ Tubeless - Identifier for tubeless tires

5 - Load Index/Speed Rating

- ☐ For example 91, refer to [page 81](#)
- ☐ For example H, refer to [page 80](#)

6 - Specified Direction of Travel of Tire/Assembly Tool

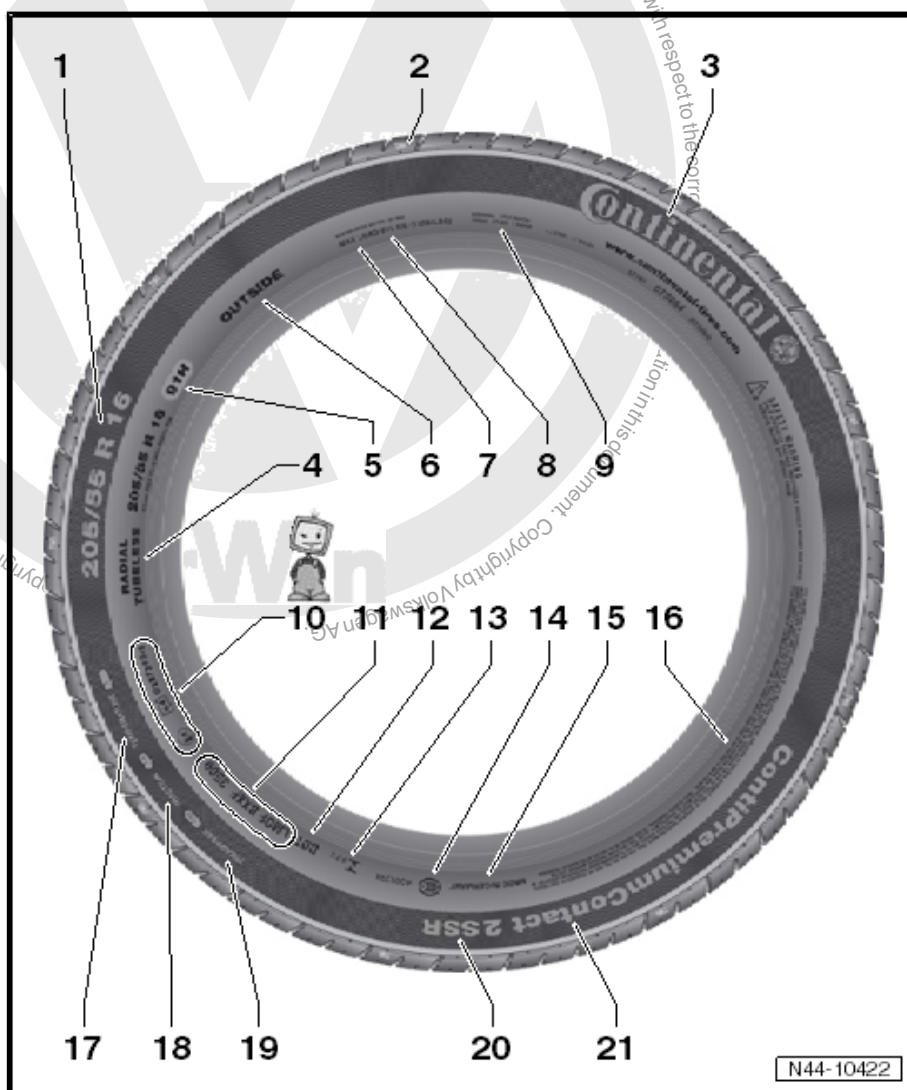
7 - Maximum Permissible Load

- ☐ Specifications for North America only.

8 - Maximum Permissible Tire Pressure

- ☐ Specifications for North America only.

9 - Number of Ply Layers in the Center of the Tread and in the Sidewalls, and Information





About the Material.

10 - ER Number = Approval Number

- ☐ The tires fulfill all European guidelines.

11 - Manufacturing Code/Date of Manufacture

- ☐ Identification number for manufacturer's factory, tire size and tire model.
- ☐ Tire age/date of manufacture, refer to ➔ ["2.6 Tires, Aging", page 84](#) .

12 - DOT - Department of Transportation

- ☐ Tire meets the guidelines of the American traffic authorities.

13 - Identification for Brazil

14 - Identification for China

15 - Country of Manufacture

- ☐ For example: Made in Germany.

16 - Safety Notes for Use or Fitting of Tires

17 - Tread Wear Index - Resistance to Abrasion

- ☐ Based on a US standard test.

18 - Traction Rating - Evaluation of Wet Braking Ability AA, A, B or C

- ☐ According to US test.

19 - Temperature Resistance Index A, B or C

- ☐ According to US test.

20 - Identifying Run-flat Tires

- ☐ For example, Self Supporting Runflat.
- ☐ Identifying run-flat tires, refer to ➔ ["1.9.2 Structure and Identification", page 41](#) .

21 - Tread Designation

- ☐ For example, ContiPremiumContact.

2.2 Tire Lettering Explanation

Tire Dimension Explanation

Tires	Speed	1	2	3	4	5	6	7
Summer Tires	up to 240 km/h	195	65	R	15	91	V	-
Winter Tires	up to 160 km/h	195	65	R	15	91	Q	M + S
Winter Tires	up to 190 km/h	195	65	R	15	91	T	M + S
High Speed tires	over 240 km/h	225	50	ZR	16	91	-	-

- 1 - Tire width
- 2 - Aspect ratio in %
- 3 - Tire construction code "R" (means radial)
- 4 - Rim diameter designation
- 5 - Load index (LI)
- 6 - Speed code
- 7 - Winter tire/designation for all-season tire

Speed Rating/Maximum Speed

Speed Code	High Speed in km/h
L	120



Speed Code	High Speed in km/h
M	130
N	140
P	150
Q	160
R	170
S	180
T	190
U	200
H	210
V	240
ZR	over 240
W	270
Y	300

Load Index (LI)

The load capacity index can be found on the sidewall of the tire. It provides information about the maximum load that the tire can bear.

The load capacity index is located in the size designation, e.g. 195/65 R 15 91T, of the tire. It is indicated on the tire as a code according to ETRTO. The following table shows the load capacity index used at VW with the corresponding load capacity of the tires.

Load Index	Maximum Load of Tire in kg
75	387
78	425
79	437
80	450
81	462
82	475
83	487
84	500
85	515
86	530
87	545
88	560
89	580
90	600
91	615
92	630
93	650
94	670
95	690
96	710
97	730
98	750
99	775



Load Index	Maximum Load of Tire in kg
100	800
101	825
102	850
103	875
104	900
110	1060
112	1120

2.3 Tires, Speed Ratings

The speed rating (e.g.: "T") behind the tire size specification (e.g.: 185/65 R 14 86T) indicates the maximum permissible speed (v_{\max}) for the tire.

When selecting the tires for a vehicle, ensure that their maximal permissible speed lies above the maximum speed attainable by the vehicle ("design-related").

Vehicles with National Type Approval

For all vehicles with national type approval, the maximum speed is calculated using the following formula:

Formula for Vehicles with v_{\max} up to 150 km/h

$$v_{\max} = 1.03 \times v + 3.5 \text{ km/h} \Rightarrow \text{page 83}$$

Example: Indicated maximum speed $v = 145 \text{ km/h}$.

$$v_{\max} = 1.03 \times 145 \text{ km/h} + 3.5 \text{ km/h} = 152.85 \text{ km/h}.$$

In this example, a "Q" tire or a tire with a higher-order speed rating must be used.

Formula for Vehicles with v_{\max} from 151 km/h

$$v_{\max} = 1.01 \times v + 6.5 \text{ km/h} \Rightarrow \text{page 83}$$

Example: Indicated maximum speed $v = 163 \text{ km/h}$.

$$v_{\max} = 1.01 \times 163 \text{ km/h} + 6.5 \text{ km/h} = 171.13 \text{ km/h}.$$

In this example, an "S" tire or a tire with a higher-order speed rating must be used.

Vehicles with EU Type Approval

For all vehicles with EU-registration, the maximum speed is calculated using the following formula:

$$v_{\max} = 1.05 \times v \Rightarrow \text{page 83}$$

Example: Indicated maximum speed $v = 172 \text{ km/h}$.

$$v_{\max} = 1.05 \times 172 \text{ km/h} = 180.60 \text{ km/h}.$$

In this example, a "T" tire or a tire with a higher-order speed rating must be used.

Using tires with a higher-order speed rating is permitted. The same applies for tires with higher-order load-carrying capacity characteristic number (load index).



Note

For the letter "V", enter the specified maximum speed in the vehicle registration Part I or II in the field "T" or in the vehicle title under number 6. This conversion is necessary, because due to technical reasons, all vehicles reach different maximum speeds within a legally permissible range.

2.4 Cracking

Cracking is the term for shallow cracks in the sidewall of the tire.

They run starting from the bulge in the direction of the tire shoulder. See illustration for the mentioned components. Refer to

⇒ [page 29](#)

The cause is the increase in material at the joints of the tire components.

Cracking has no effect on:

- ◆ Safety.
- ◆ Service life.
- ◆ Vehicle handling.
- ◆ Other characteristics of the tire.

Cracks can be of varying visibility. Removing the tire from the rim or an examination is not necessary.

How did the cracks form?

Modern steel belted tires are constructed with single-ply sidewalls to save weight.

The sidewall components consist of long strips before they are joined together to form a tire. They must overlap at the joints. Small irregularities/ripples form in the area of the overlapping components. The overlaps are easier to see from the outside due to the single-ply construction.

2.5 Tires, Storing

Storage Room

Tire storage must be:

- Dark
- Dry
- Cool
- Ventilated



WARNING

Stored tires must not come in contact with fuel, oil, grease or chemicals under any circumstances. Otherwise, the material in the tire will be damaged by chemical reactions which are not always visible.

This may lead to life-threatening situations when the car is driven.

However, tire damage occurs only when the reaction time of the chemicals is long. If a few drops of fuel land on a tire during a fill-up, this is harmless.



Tire Storage

Complete Wheels

Tires mounted on wheels can be stored flat, stacked on upon another. When doing this, always ensure that wheels are clean and dry. The air pressure should be raised to a maximum of 3 bar.

Tires without Wheels

Tires without wheels are best stored standing vertically. If tires lie stacked upon another for longer periods of time, they will be strongly pressed together. This makes mounting more difficult because the tires do not lie on the bead seat. If the tires are stored standing vertically, it is recommended to turn them every 14 days to avoid severe flattening.

2.6 Tires, Aging

- ◆ Even tires that look in good shape, new or hardly use and have sufficient tread depth and that are older than 6 years, can age caused by moisture and winter conditions.
- ◆ Tire test show that through continual development, new rubber mixtures, modern raw materials and optimizing the tire profile and profile geometry, better tires are being produced.
- ◆ The highly engineered vehicles manufactured by Volkswagen, plus constant growing customer expectations, demand economical tires that offer the highest degree of safety, driving dynamic and comfort.
- ◆ Tires age as a result of physical and chemical processes whereby the function can be impaired. Tires which are stored for longer periods of time become harder and brittle faster than tires which are constantly in use on a vehicle.
- ◆ Older tires may develop hairline cracks from aging.
- ◆ When tires are in constant use, the kneading activates softeners in the rubber, preventing hardening and the development of cracks.
- ◆ Therefore, one should note not just the tread depth but also the age of spare tires, stored tires and tires which are not permanently in use.
- ◆ Tire age can be determined from the DOT code which contains, among other things, the tire's production date.

Example of a DOT number through 12/31/1999

DOT	5	0	9	<
				stands for 199_
				Production year last digit
				Calendar week

In this example, the production date is the 50th week of 1999.

Example of a DOT number from 01/01/2000

DOT	0	1	0	0
				Production year last two digits
				Calendar week

In this example, the production date is the 01st week of 2000.

Recommendation

- ◆ Using summer and winter tires that are more than 6 years old is not recommended. The aging process reduces the original



characteristics. The gripping capabilities of winter tires are especially reduced.

- ◆ When new tires are fitted, the spare tire may also be used if it is in flawless condition and is not more than 6 years old. The age of the tire has a great influence on the high-speed capability of the tire. The combination of a spare tire which is several years old with new tires is possible, but it can influence the car's handling.
- ◆ Tires are constantly being further developed, this can lead, for example, to slight changes in the rubber compound, even if the tires are of the same make, size and tread.
- ◆ All VW vehicles are factory-fitted with four identical tires and wheels.

Vehicles with FWD

- ◆ For driving safety reasons, tires of the same make and with the same tread should be mounted on one axle.

Vehicles with AWD

- ◆ Vehicles with AWD always must be equipped with four wheels that have tires of the same size, construction, tread pattern and make.

Tires, Replacing

Tires must be changed when:

- The legal minimum tread depth of 1.6 mm is reached.
- There is visible damage from mechanical damage.

2.7 Tire Sizes, AWD Vehicles

Note the following regarding AWD vehicles:

- ◆ Only tires having the same size and are manufactured by the same manufacturer and have the same profile may be used on the front and rear.
- ◆ Different rolling circumferences will lead to tension on the drivetrain and increased tire wear with possible damage to the drivetrain.
- ◆ This also applies to front and rear tires that are worn differently. In this case, install tires with a larger tread depth.

2.8 Winter Tires

Using Winter Tires

From May 1, 2006, the road traffic regulations were changed to include the following: "Vehicle equipment must be adapted to the weather conditions. This includes suitable tires and freeze protection in the windshield washer system."

Inform the customer that since May 1st, 2006, he or she is obligated to adapt vehicle equipment, especially tires, to winter weather conditions.

For the winter operation, it is recommended to mount winter tires in the sizes shown in the parts certificate table.

Always Applicable

All tire sizes listed in the vehicle papers can also be driven as winter tires!

The handling characteristics may be affected due to the use of winter tires the resulting changes in wheel and tire dimensions. For this reason, driving speed must be adapted to the changed handling characteristics and road conditions.



To attain best handling characteristics winter tires must be mounted on all wheels.

If while mounting the winter tires, the vehicle is equipped with rims that are not factory-fitted, the following must be observed:

- ◆ Wheels and wheel bolts are coordinated to each other!
- ◆ When retrofitting to different wheels, the corresponding wheel nuts with the correct length and cup shape ⁴⁾ must be used. The secure seating of the wheels and the function of the brake system depend on it!
- ◆ Winter tires with tread depth of less than 4 to 5 mm are only for limited use during winter operation.
- ◆ In some countries, at least 4 mm tread depth are required for winter tires.
- ◆ It is recommended to not use winter tires longer than six years. The aging process reduces the particular "winter characteristics" of these tires independently from the mileage.

Vehicles with Tire Pressure Monitoring System

On vehicles with tire pressure monitoring system, the tire pressure must be resaved or adapted after each change from summer to winter tires or vice versa.

4) Spherical cap is the curved surface of a section of a sphere. The spherical cap can be seen in the wheel bolt and in the wheel (rim) in the wheel bolt hole.

2.9 Winter Tires with Speed Rating V

The tire industry delivers winter tires with V-rating also. These tires can be applied up to the maximum permissible speed $v_{\max} = 240$ km/h only under certain conditions.

Vehicles with V-Tires

Vehicles that require V-tires according to vehicle registration, can be driven with V winter tires without limitations up to $v_{\max} = 240$ km/h.

Vehicles with W-, Y- or ZR-Tires

Vehicles that require W, Y, or ZR tires according to vehicle registration, cannot be driven with V winter tires up to $v_{\max} = 240$ km/h under certain conditions.

Why?

V summer tires and V winter tires without special designation ([⇒ page 87](#)) guarantee 100% of the load capacity indicated by their Load Index ("LI") ([⇒ page 86](#)) only up to a speed of 210 km/h.

Speeds above 210 km/h are only possible if the maximum load capacity of the tire is not exceeded. The load capacity of the tire decreases as the speed increases.

The maximum permissible axle load and the attainable maximum speed of certain VW vehicles are so high that the load capacity of V tires is not sufficient for speeds above 240 km/h.

Example: Tires 205/55 R 16

91
V

The Load Index (LI) 91 for this tire indicates a load capacity of 615 kg per tire up to 210 km/h.

At 240 km/h, the load capacity of this tire is reduced to only 560 kg. For this reason, the axle load can only be maximum 1,120 kg.



The Passat Wagon V6 4MOTION has an additional axle load of 1,150 kg and an attainable maximum speed of 232 km/h. This vehicle can be driven with V winter tires up to a speed of 230 km/h.



Note

This applies to all V winter tires that do not have a special designation.

2.10 Winter Tires, Extra Load, Speed Rating V

V winter tires with XL designation have a higher load capacity than the V winter tires without this designation.

Higher speeds can be attained with XL V-winter tires, but the maximum speed of the V tires of 240 km/h is not permissible for every VW passenger car.

The same conditions apply for these tires as for V winter tires without special designation

!

Tire Pressure in Extra Load V Tires

The following table shows the speed which the concerned VW passenger cars can attain with V-winter tires, depending on their axle load. Refer to

⇒ [“2.11 Winter Tires, Maximum Speeds for V and Extra Load”, page 87](#).

2.11 Winter Tires, Maximum Speeds for V and Extra Load

Vehicle	Description	Driving Mode	Maximum Axle Load	Winter Tires	v _{max} with V Winter Tires
Phaeton 2003 > 3.2L/177 kW V6 Short and long wheel base	Sedan	FWD	1,420 kg	235/60 R 16,100 V	240 km/h
				235/55 R 17 99V	235 km/h
				235/50 R 18,101 V extra load	240 km/h
				245/45 R 19 102V extra load	230 km/h
				255/40 R 19,100 V extra load	240 km/h
Phaeton 2003 > 3.0L/165 kW V6 TDI Short and long wheel base	Sedan	4MOTION	1,490 kg	235/55 R 17 99V	220 km/h
				235/50 R 18,101 V extra load	240 km/h
				245/45 R 19 102V extra load	230 km/h
				255/40 R 19,100 V extra load	230 km/h
Phaeton 2003 > 4.2L/246 kW V8	Sedan	4MOTION	1,430 kg	235/55 R 17 99V	235 km/h



Vehicle	Description	Driving Mode	Maximum Axle Load	Winter Tires	v _{max} with V Winter Tires
Short wheel base				235/50 R 18,101 V extra load	240 km/h
				245/45 R 19 102V extra load	230 km/h
				255/40 R 19,100 V extra load	240 km/h
Phaeton 2003 ➤ 4.2L/246 kW V8 Long wheel base	Sedan	4MOTION	1,450 kg	235/55 R 17 99V	230 km/h
				235/50 R 18,101 V extra load	240 km/h
				245/45 R 19 102V extra load	230 km/h
				255/40 R 19,100 V extra load	240 km/h
Phaeton 2003 ➤ 5.0L/230 kW V10 TDI short wheel base	Sedan	4MOTION	1,640 kg	235/50 R 18,101 V extra load	210 km/h
Phaeton 2003 ➤ 5.0L/230 kW V10 TDI long wheel base	Sedan	4MOTION	1,650 kg	235/50 R 18,101 V extra load	210 km/h
Phaeton 2003 ➤ 6.0L/309 kW W12 Short and long wheel base	Sedan	4MOTION	1,550 kg	235/50 R 18,101 V extra load	235 km/h
				245/45 R 19 102V extra load	230 km/h
				255/40 R 19,100 V extra load	220 km/h

Permission Stipulations in Germany

Only when using winter tires is it permitted that the highest speed attainable by the vehicle lies above the highest speed of winter tires specified by the speed rating.

In this case, a warning sign must be applied with the following content:

Attention, Winter Tires!
Maximum permissible speed ...km/h



Note

This warning sign must be in the driver's field of view!

2.12 Tires, Reinforced, Extra Load

Some time ago, the designation "Reinforced" was replaced with the designation "Extra Load" by some tire manufacturers. In countries outside Europe, this designation has been conventional for some time. There are no technical differences.



Some tire manufacturers also use the "XL" designation for Extra Load tires.

Tires with the designations "Reinforced" or "Extra Load (XL)" are the same.

2.13 Snow Chains

Snow chains may be mounted only on the drive wheels.

Only the front wheels on all wheel drive vehicles and also the back wheels on the Touareg are equipped with snow chains.

Snow chains are not possible with all wheel/tire combinations. Corresponding notes can be found in the vehicle parts certificate table.

If no special snow chain type is specified, a snow chain with small chain links can be used. Only chains which do not stand up more than 15 mm, including chain lock, may be applied on tire tread and inner sides.

With some models and certain wheel/tire combinations, only snow chains with small chain links can be used. Corresponding notes can be found in the vehicle parts certificate table.



Note

The legally permitted maximum speed when driving with snow chains is 50 km/h.



Remove the snow chains before driving on snow-free roads. It does not make sense to leave them on because the handling characteristics become worse. During this, the tires are stressed unnecessarily and the chain wear is particularly high.



3 Specifications

- ⇒ ["3.1 Golf, from MY 2009", page 90](#)
- ⇒ ["3.2 Golf GTI, from MY 2010", page 113](#)
- ⇒ ["3.3 Golf R, from MY 10", page 130](#)
- ⇒ ["3.4 Jetta Wagon, from MY 2010", page 140](#)
- ⇒ ["3.5 Jetta, from MY 2006", page 167](#)
- ⇒ ["3.6 Jetta, from MY 11", page 202](#)
- ⇒ ["3.7 Beetle from MY 12", page 217](#)
- ⇒ ["3.8 New Beetle Cabriolet, from MY 2003", page 223](#)
- ⇒ ["3.9 Tiguan, from MY 2008", page 239](#)
- ⇒ ["3.10 Eos, from MY 2006", page 245](#)
- ⇒ ["3.11 Passat CC, from MY 2009", page 258](#)
- ⇒ ["3.12 Phaeton, from MY 2003", page 266](#)
- ⇒ ["3.13 Touareg, from MY 2010", page 280](#)
- ⇒ ["3.14 Touareg Hybrid, from MY 11", page 286](#)

3.1 Golf, from MY 2009

- ⇒ ["3.1.1 Golf and Golf 4MOTION Sales Type 5K, MY 2009 through MY 2011", page 91](#)
- ⇒ ["3.1.2 Golf and Golf 4MOTION Sales Type 5K MY 2009 through MY 2011 Wheel Allocation", page 96](#)
- ⇒ ["3.1.3 6 J x 15", page 96](#)
- ⇒ ["3.1.4 61/2 J x 15", page 97](#)
- ⇒ ["3.1.5 6 J x 16", page 98](#)
- ⇒ ["3.1.6 61/2 J x 16", page 99](#)
- ⇒ ["3.1.7 6 J x 17", page 104](#)
- ⇒ ["3.1.8 7 J x 17", page 104](#)
- ⇒ ["3.1.9 71/2 J x 17", page 108](#)
- ⇒ ["3.1.10 71/2 J x 18", page 110](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Votex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.1.1 Golf and Golf 4MOTION Sales Type 5K, MY 2009 through MY 2011



Caution

The Golf is listed according to the sales type and not to the type approval.

The type approval and the associated type approval number is listed as follows.


Golf, Type Approval - type 1K

Supplement to parts certificate 8106803334

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide

Type approval number: e1*2001/116*0242*25 through e1*2001/116*0242*34

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Offset (ET) in mm	Snow Chains	Comments
1.2L 63 kW 1.2L 77 kW 1.4L 59 kW; 1.6L 75 kW; Gasoline engines	Standard Tires	195/65 R 15 91T	6 J x 15 , refer to ⇒ <u>"3.1.3 6 J x 15", page 96</u>	47 	Yes	General information about: ♦ Winter tires, refer to ⇒ <u>"2.8 Winter Tires", page 85</u> ♦ Snow chains, refer to ⇒ <u>"2.13 Snow Chains", page 89</u>



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 75 kW; FlexFuel (Ethanol) 1.6L 75 kW BiFuel (LPG) 1.6L 66 kW TDI; 1.6L 77 kW TDI; Diesel engine	Modification	195/65 R 15 91H/V	6 J x 15, refer to ⇒ <u>"3.1.3 6 J x 15"</u> , <u>page 96</u> .	47	Yes	Volkswagen recommended tire brands:
		195/65 R 15 91T/H/V	6 1/2 J x 15 , refer to ⇒ <u>"3.1.4 6 1/2 J x 15"</u> , <u>page 97</u> .	50	Yes	♦ Summer tires, refer to ⇒ <u>"1.15.3 Golf, from MY 2009"</u> , <u>page 57</u> . ♦ All-season tires, refer to ⇒ <u>"1.16.3 Golf, from MY 2009"</u> , <u>page 68</u> . ♦ Winter tires, refer to ⇒ <u>"1.17.3 Golf, from MY 2009"</u> , <u>page 73</u> .
		205/60 R 15 91T/H/V	6 J x 15, refer to ⇒ <u>"3.1.3 6 J x 15"</u> , <u>page 96</u> .	47	Yes	
		205/55 R 16 91T/H/V/W	6 1/2 J x 16 , refer to ⇒ <u>"3.1.6 6 1/2 J x 16"</u> , <u>page 99</u> .	50	No	
		205/50 R 17 93T/H/V	6 J x 17, refer to ⇒ <u>"3.1.7 6 J x 17"</u> , <u>page 104</u> .	48,5	Yes*** ⇒ <u>page 93</u>	
		225/45 R 17 91T/H/V/W	7 J x 17 , refer to ⇒ <u>"3.1.8 7 J x 17"</u> , <u>page 104</u> .	54	No	
		225/45 R 17 91T/H/V/W * ⇒ <u>page 92</u>	7 1/2 J x 17 , refer to ⇒ <u>"3.1.9 7 1/2 J x 17"</u> , <u>page 108</u> .	51	No	* 225/45 R 17 91T/H/V/W tires with a 7 1/2 J x 17 ET 51 rim may only be used on a vehicle with a sport chassis!
		225/40 R 18 92Y** ⇒ <u>page 92</u>	7 1/2 J x 18 , refer to ⇒ <u>"3.1.10 7 1/2 J x 18"</u> , <u>page 110</u> .	51	No	* a 225/40 R 18 92Y tire with a 7 1/2 J x 18 ET 51 rim is permissible only for vehicles with sport suspension and a camber value at rear axle of -1°45'!



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, re- fer to ⇒ <u>"3.1.3 6 J x 15", page 96</u> .	47	Yes	*** Only use snow chains with small links that do not project more than 8 mm. . Refer to the Elec- tronic Parts Catalog (ETKA).
		205/55 R 16 91Q/T/H	6 J x 16 , refer to ⇒ <u>"3.1.5 6 J x 16", page 98</u> .	50	Yes	
		205/50 R 17 93Q/T/H	6 J x 17 , refer to ⇒ <u>"3.1.7 6 J x 17", page 104</u> .	48,5	Yes*** ⇒ <u>page 93</u>	
1.4L 90 kW Gasoline engine	Standard Tires	195/65 R 15 91H	6 J x 15, re- fer to ⇒ <u>"3.1.3 6 J x 15", page 96</u> .	47	Yes	
2.0L 81 kW TDI; 2.0L 100 kW TDI; Diesel engines	Modification	195/65 R 15 91V	6 J x 15, re- fer to ⇒ <u>"3.1.3 6 J x 15", page 96</u> .	47	Yes	
2.0L 103 kW TDI Diesel engine with front wheel drive		195/65 R 15 91H/V	6 ¹ / ₂ J x 15, refer to ⇒ <u>"3.1.4 6¹/₂ J x 15", page 97</u> .	50	Yes	
		205/60 R 15 91H/V	6 J x 15, re- fer to ⇒ <u>"3.1.3 6 J x 15", page 96</u> .	47	Yes	
		205/55 R 16 91H/V/W	6 ¹ / ₂ J x 16, refer to ⇒ <u>"3.1.6 6¹/₂ J x 16", page 99</u> .	50	No	
		205/50 R 17 93H/V/W	6 J x 17, re- fer to ⇒ <u>"3.1.7 6 J x 17", page 104</u> .	48,5	Yes*** ⇒ <u>page 93</u>	
		225/45 R 17 91H/V/W	7 J x 17, re- fer to ⇒ <u>"3.1.8 7 J x 17", page 104</u> .	54	No	
		225/45 R 17 91H/V/W * ⇒ <u>page 93</u>	7 ¹ / ₂ J x 17, refer to ⇒ <u>"3.1.9 7¹/₂ J x 17", page 108</u> .	51	No	
						* 225/45 R 17 91H/V/ W tire with a 7 ¹ / ₂ J x 17 ET 51 rim may on- ly be used on a vehi- cle with a sport chas- sis!



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		225/40 R 18 92Y** ⇒ page 94	7 ¹ / ₂ J x 18, refer to ⇒ "3.1.10 7 ¹ / ₂ J x 18", page 110 .	51	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, re- fer to ⇒ "3.1.3 6 J x 15", page 96 .	47	Yes	*** Only use snow chains with small links that do not project more than 8 mm. Refer to the Elec- tronic Parts Catalog (ETKA).
		205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ "3.1.5 6 J x 16", page 98 .	50	Yes	
		205/50 R 17 93Q/T/H	6 J x 17, re- fer to ⇒ "3.1.7 6 J x 17", page 104 .	48,5	Yes*** ⇒ page 94	
2.0L 103 kW TDI Diesel engine with all wheel drive	Standard Tires	205/55 R 16 91H	6 ¹ / ₂ J x 16, refer to ⇒ "3.1.6 6 ¹ / ₂ J x 16", page 99 .	50	No	
	Modification	205/55 R 16 91V/W	6 ¹ / ₂ J x 16, refer to ⇒ "3.1.6 6 ¹ / ₂ J x 16", page 99 .	50	No	
		205/50 R 17 93H/V/W	6 J x 17, re- fer to ⇒ "3.1.7 6 J x 17", page 104 .	48,5	Yes*** ⇒ page 93	
		225/45 R 17 91H/V/W	7 J x 17, re- fer to ⇒ "3.1.8 7 J x 17", page 104 .	54	No	
		225/45 R 17 91H/V/W * ⇒ page 94	7 ¹ / ₂ J x 17, refer to ⇒ "3.1.9 7 ¹ / ₂ J x 17", page 108 .	51	No	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.4L 118 kW; 1.8L 118 kW Gasoline engine		225/40 R 18 92Y** ⇒ page 95	7 ¹ / ₂ J x 18, refer to ⇒ "3.1.10 71/2 J x 18", page 110 .	51	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ "3.1.5 6 J x 16", page 98 .	50	Yes	*** Only use snow chains with small links that do not project more than 8 mm.
		205/50 R 17 93Q/T/H	6 J x 17, re- fer to ⇒ "3.1.7 6 J x 17", page 104 .	48,5	Yes*** ⇒ page 95	. Refer to the Elec- tronic Parts Catalog (ETKA).
	Standard Tires	205/55 R 16 91V	6 ¹ / ₂ J x 16, refer to ⇒ "3.1.6 61/2 J x 16", page 99 .	50	No	
	Modification	205/50 R 17 93V/W	6 J x 17, re- fer to ⇒ "3.1.7 6 J x 17", page 104 .	48,5	Yes*** ⇒ page 93	
		225/45 R 17 91V/W	7 J x 17, re- fer to ⇒ "3.1.8 7 J x 17", page 104 .	54	No	
		225/45 R 17 91V/W * ⇒ page 95	7 ¹ / ₂ J x 17, refer to ⇒ "3.1.9 71/2 J x 17", page 108 .	51	No	* a 225/45 R 17 91V/ W tire on a 7 ¹ / ₂ J x 17 ET 51 rim may on- ly be used on a vehi- cle with a sport chas- sis!
		225/40 R 18 92Y** ⇒ page 95	7 ¹ / ₂ J x 18, refer to ⇒ "3.1.10 71/2 J x 18", page 110 .	51	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ "3.1.5 6 J x 16", page 98 .	50	Yes	*** Only use snow chains with small links that do not project more than 8 mm.
		205/50 R 17 93Q/T/H	6 J x 17, re- fer to ⇒ "3.1.7 6 J x 17", page 104 .	48,5	Yes*** ⇒ page 95	. Refer to the Elec- tronic Parts Catalog (ETKA).



Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.1.2 Golf and Golf 4MOTION Sales Type 5K MY 2009 through MY 2011 Wheel Allocation

Golf, Type Approval - Type 1K

Explanatory notes of indications on disc wheels, refer to
⇒ "1.11.2 Disc Wheels, Identification", page 45 .

Wheel bolt tightening specifications, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5

3.1.3 6 J x 15

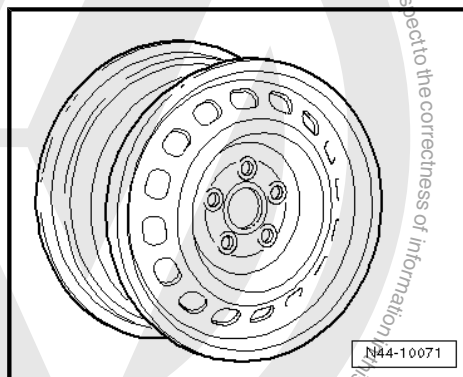


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ page 91 .

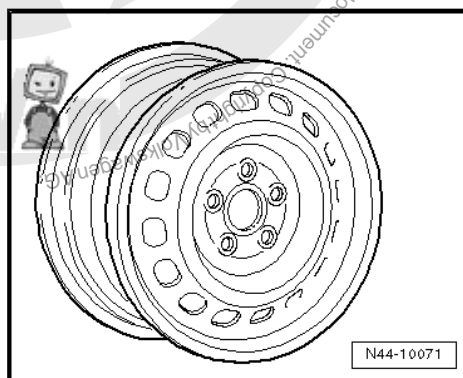
1K0 601 027 H - wheel/tire combination. Refer to ⇒ page 91

Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	615



1K0 601 027 C, 1K0 601 027 T - wheel/tire combination. Refer to ⇒ page 91

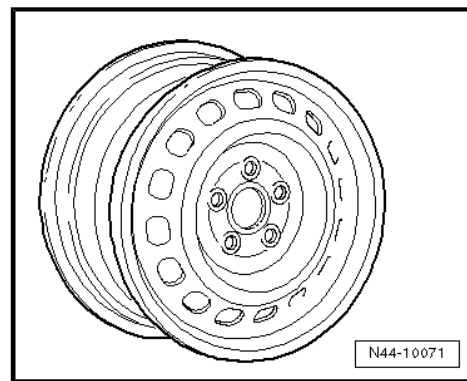
Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	615





2K0 601 027 - Wheel/tire combination. Refer to ➤ page 91

Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	650



3.1.4 6¹/₂ J x 15

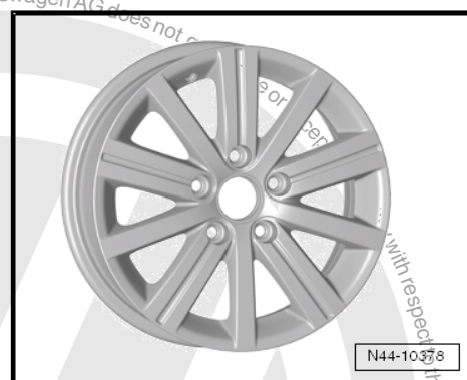


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 91 .

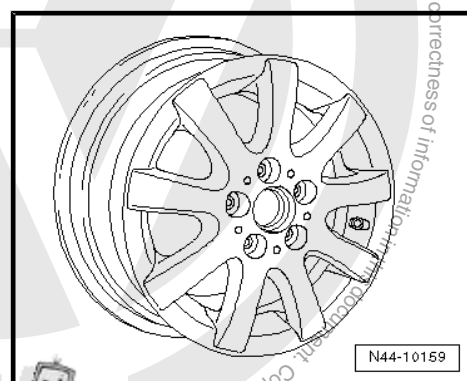
5k0 601 025 J - Wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



1K0 601,025 A - Wheel/tire combination. Refer to ➤ page 92

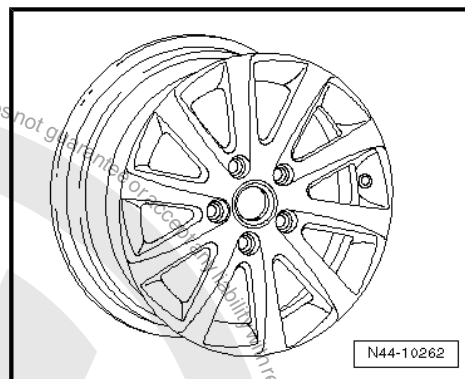
Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600





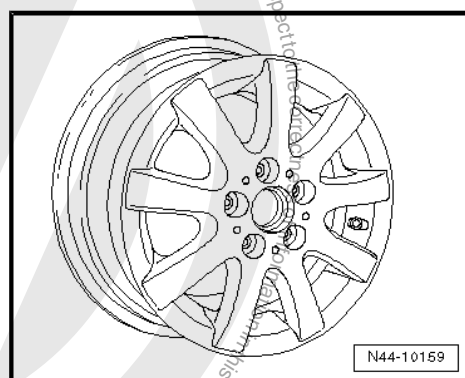
1K0 601 025 AK - Wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



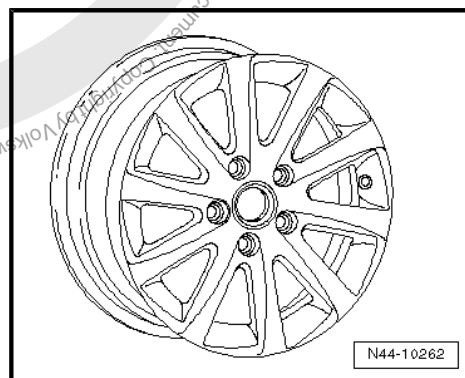
1K0 601 025 AQ - Wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



1K0 601 025 CA - Wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



3.1.5 6 J x 16



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 91.



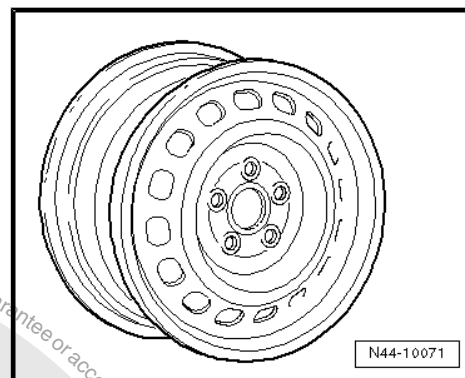
Winter Wheels

8P0 601 027 - Wheel/tire combination. Refer to ➤ [page 93](#)

Dimension:	6 J x 16
Offset in mm:	50
Wheel load in kg:	600

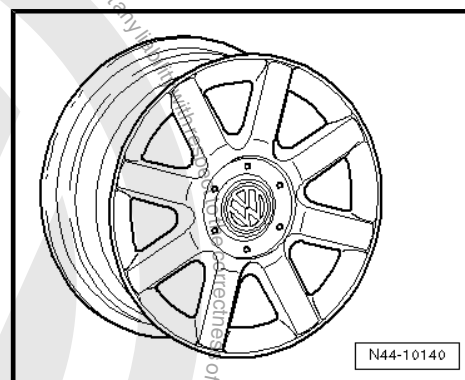
Use the following wheel bolt caps for the wheel bolts:

- ◆ 1K0.601.173 (4x per wheel)
- ◆ 1K0.601.173.A (1x per wheel)



1K0 601 025 Q - Wheel/tire combination. Refer to ➤ [page 93](#)

Dimension:	6 J x 16 EH2, refer to ➤ "1.11.2 Disc Wheels, Identification", page 45
Offset in mm:	50
Wheel load in kg:	615



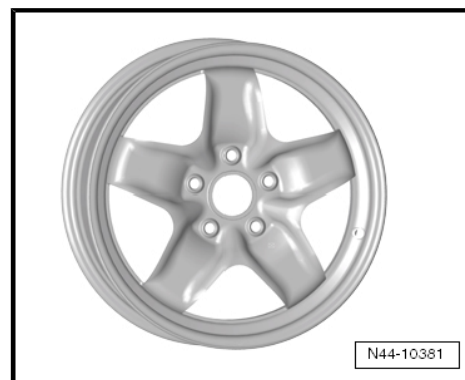
3.1.6 6¹/₂ J x 16

Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ [page 91](#).

5K0 601 027 - Wheel/tire combination. Refer to ➤ [page 92](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





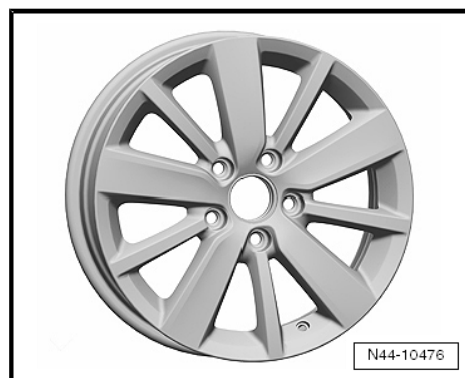
5K0 601 025 E - Wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



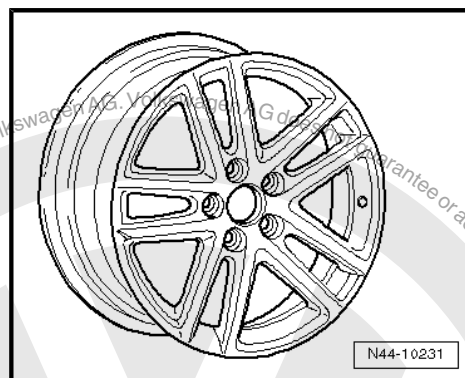
5K0 601 025 S - wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



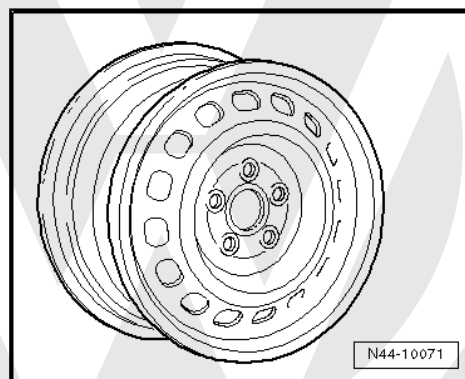
1K0 601 025 BM - wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601,027 A - Wheel/tire combination. Refer to ➤ page 92

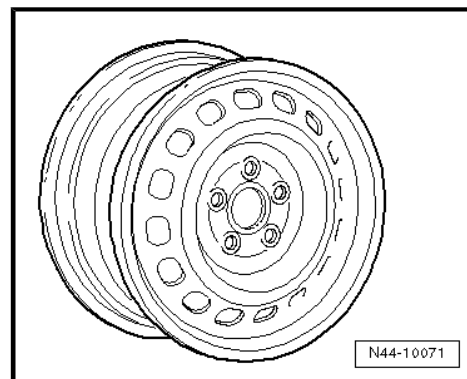
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





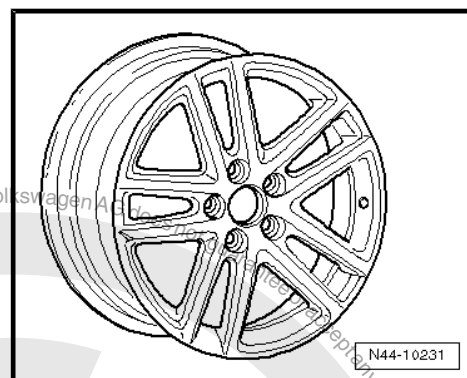
1K0 601 027 J, 1K0 601 027 K - wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



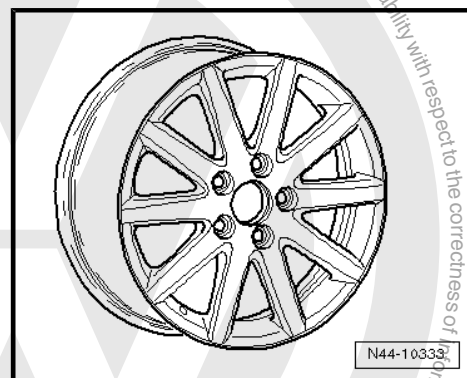
1K0 601 025 AJ - Wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



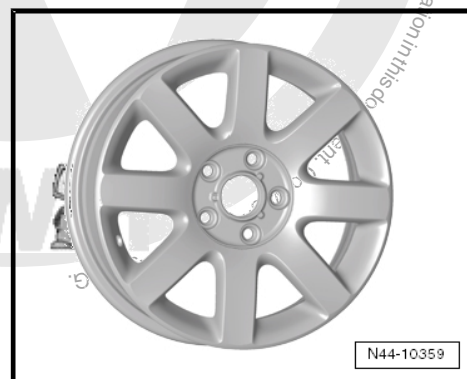
1K0 601 025 BC - wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BR - wheel/tire combination. Refer to ➤ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





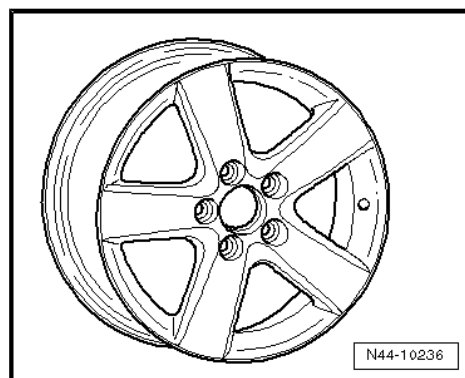
1K0 601 025 BS - wheel/tire combination. Refer to ➤ [page 92](#) .

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



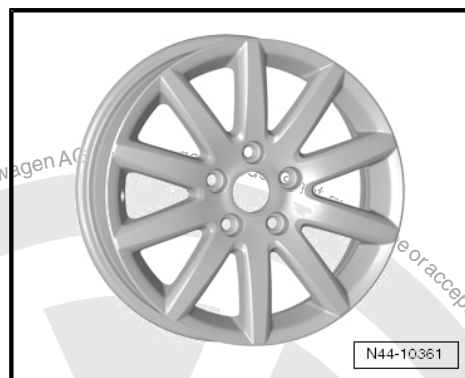
1K0 601 025 CB - Wheel/tire combination. Refer to ➤ [page 92](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



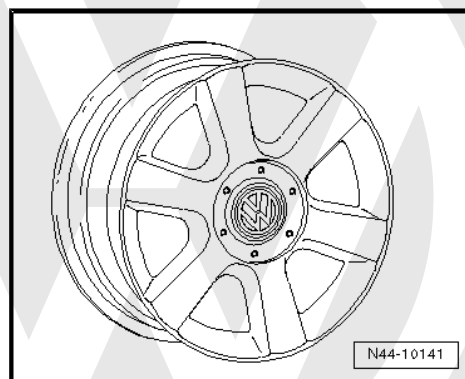
1K0 601 025 CG - wheel/tire combination. Refer to ➤ [page 92](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 C - Wheel/tire combination. Refer to ➤ [page 92](#)

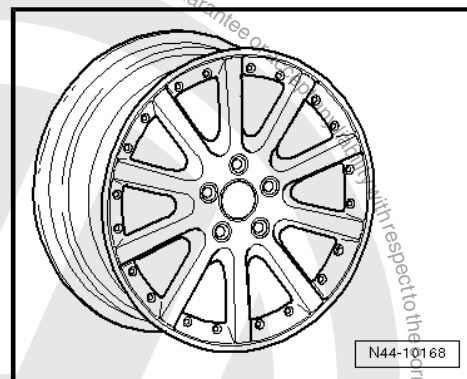
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





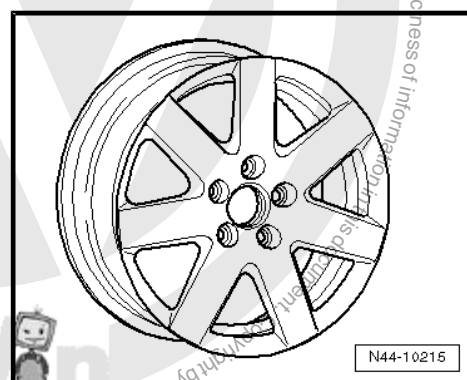
1K0 601 025 F - Wheel/tire combination. Refer to ⇒ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



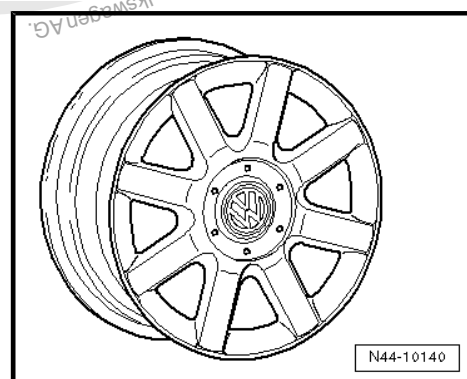
1K0 601 025 P - Wheel/tire combination. Refer to ⇒ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



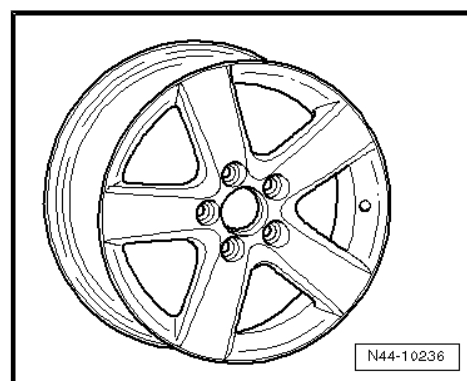
1K0 601 025 R - Wheel/tire combination . Refer to ⇒ page 92

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 G; 1T0 601 025 K- Wheel/tire combination. Refer to ⇒ page 92

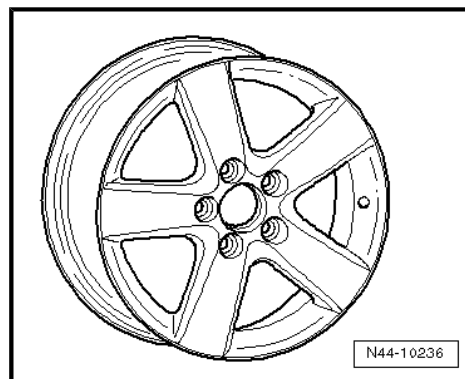
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





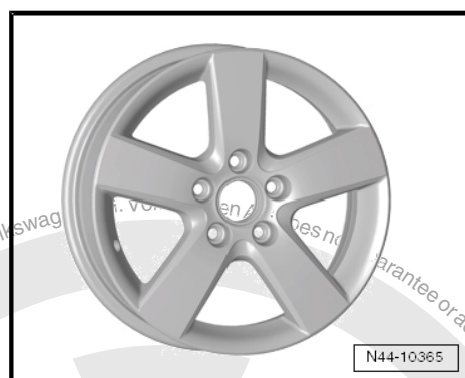
1T0 601 025 M - Wheel/tire combination. Refer to ➔ [page 92](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 R - wheel/tire combination. Refer to ➔ [page 92](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



3.1.7 6 J x 17



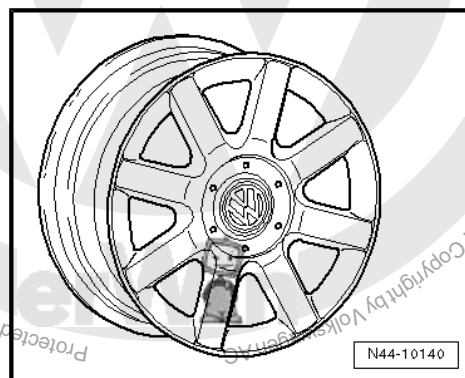
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 91](#).

Winter tire

1K0 601 025 N - Wheel/tire combination. Refer to ➔ [page 93](#)

Dimension:	6 J x 17
Offset in mm:	48,5
Wheel load in kg:	615



3.1.8 7 J x 17



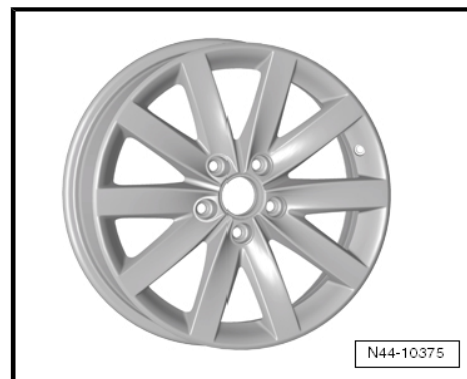
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 91](#).



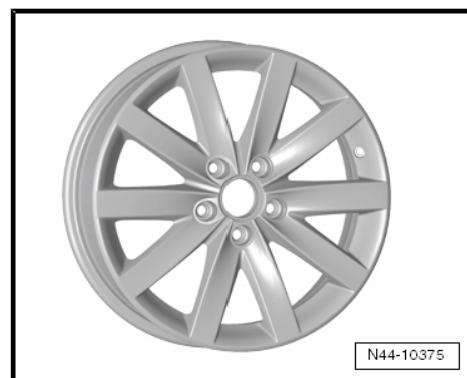
5K0 601 025 D - Wheel/tire combination. Refer to ➤ page 92 .

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 F - Wheel/tire combination. Refer to ➤ page 92

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



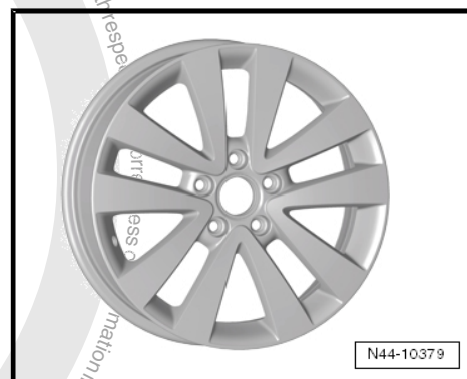
5K0 601 025 K - Wheel/tire combination. Refer to ➤ page 92 .

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 Q, 5K0 601 025 R - wheel/tire combination. Refer to ➤ page 92

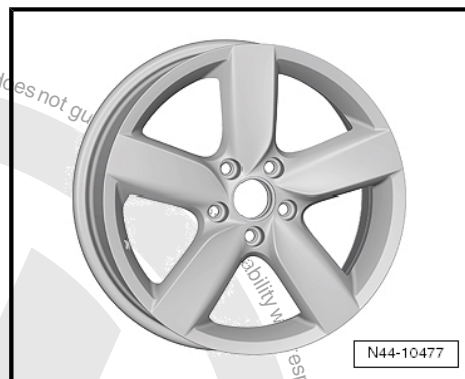
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





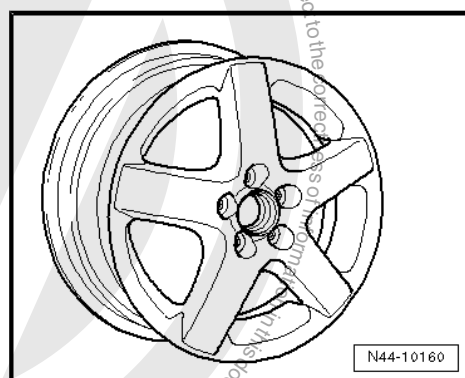
5K0 601 025 AA - wheel/tire combination. Refer to ➤ [page 92](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



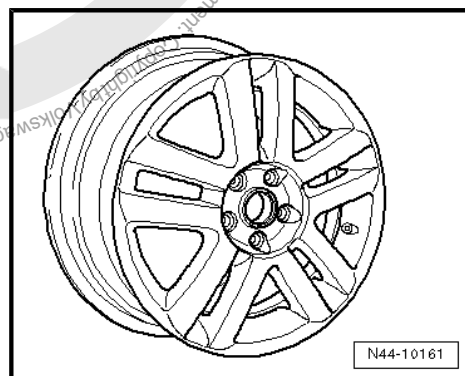
1K0 601,025 B - Wheel/tire combination. Refer to ➤ [page 92](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



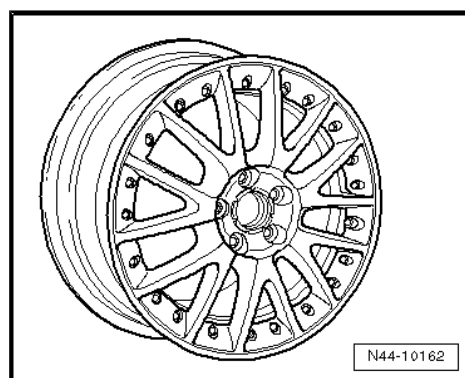
1K0 601,025 C - Wheel/tire combination. Refer to ➤ [page 92](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



1K0 601,025 J - Wheel/tire combination. Refer to ➤ [page 92](#)

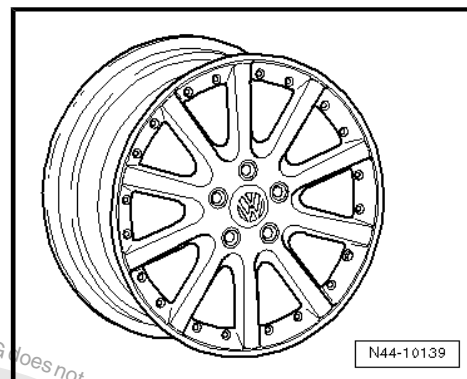
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





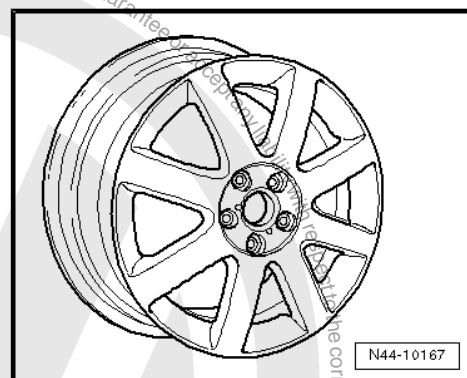
1K0 601,025 K - Wheel/tire combination. Refer to ➤ page 92

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



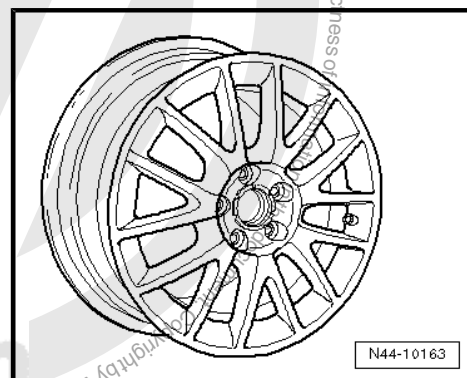
1K0 601 025 M - Wheel/tire combination. Refer to ➤ page 92

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



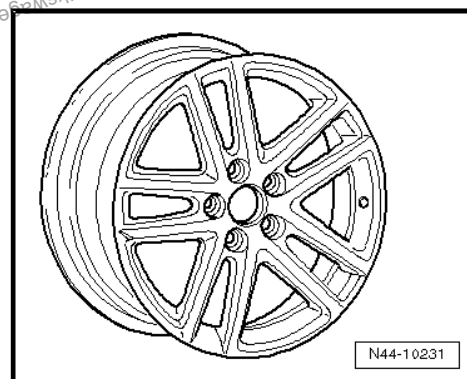
1K0 601 025 T - Wheel/tire combination. Refer to ➤ page 92

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



1K0 601 025 AF - Wheel/tire combination. Refer to ➤ page 92

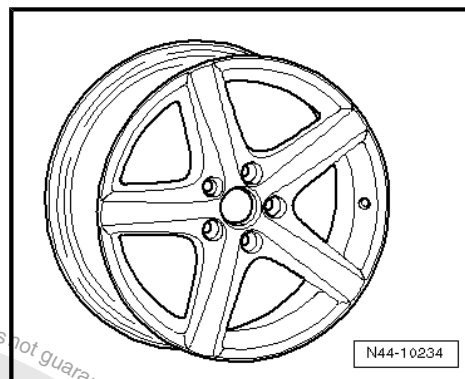
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630





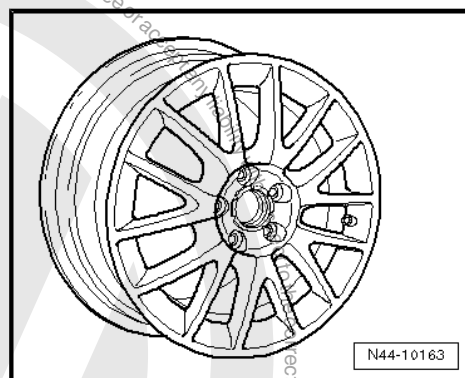
1K0 601 025 AE - Wheel/tire combination. Refer to ➤ page 92

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630



1K0 601 025 AN - Wheel/tire combination. Refer to ➤ page 92

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



3.1.9 7¹/₂ J x 17



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 91 .

5K0 601,025 N - Wheel/tire combination. Refer to ➤ page 92



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	630





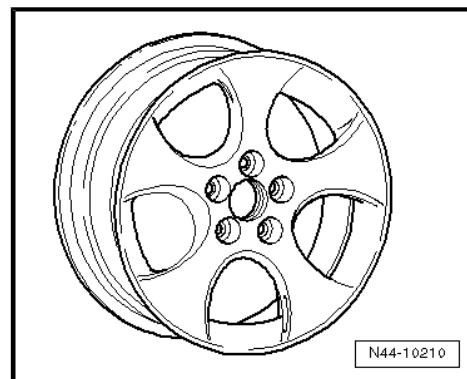
1K0 601 025 BB - Wheel/tire combination. Refer to ➤ page 92



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



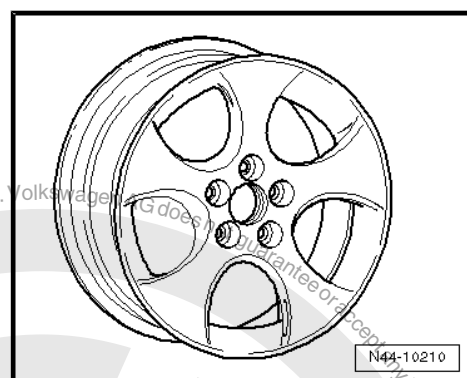
1K0 601 025 AC - Wheel/tire combination. Refer to ➤ page 92



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



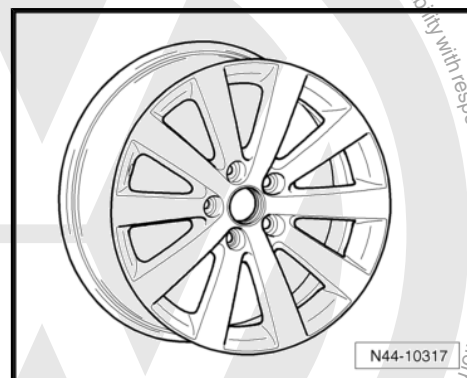
1K0 601 025 BK - Wheel/tire combination. Refer to ➤ page 92



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



5K0 601 025 G- wheel/tire combination. Refer to ➤ page 92



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	630





3.1.10 7¹/₂ J x 18



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 91](#).

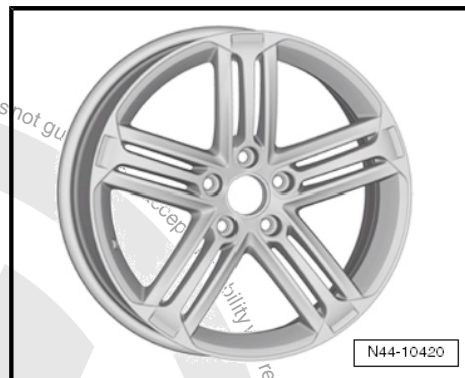
5K0 601 025 H- wheel/tire combination. Refer to ➔ [page 92](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



5K0 601 025 L - Wheel/tire combination. Refer to ➔ [page 92](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



5K0 601 025 P - wheel/tire combination. Refer to ➔ [page 92](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630





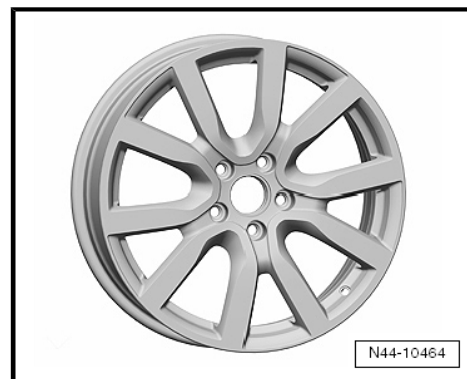
5K0 601 025 AC - wheel/tire combination. Refer to ➤ page 92 .



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



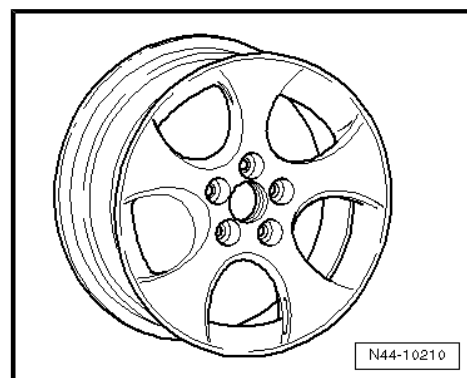
1K0 601 025 BA - Wheel/tire combination. Refer to ➤ page 92



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



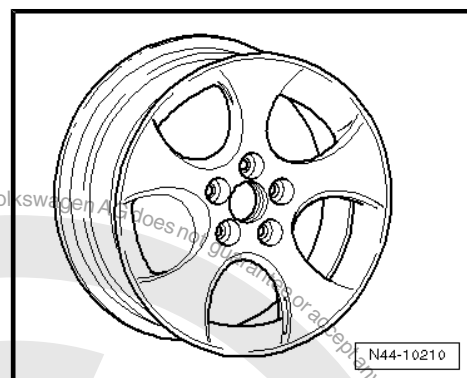
1K0 601 025 AH - Wheel/tire combination. Refer to ➤ page 92



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



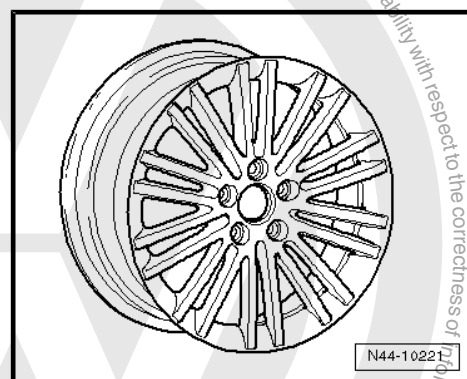
1K0 601 025 AD - Wheel/tire combination. Refer to ➤ page 92



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630





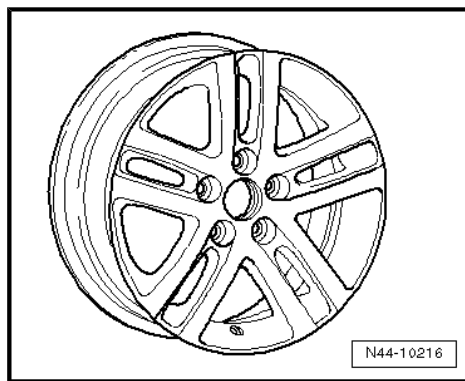
1K0 601 025 AG - Wheel/tire combination. Refer to ➤ [page 92](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	630



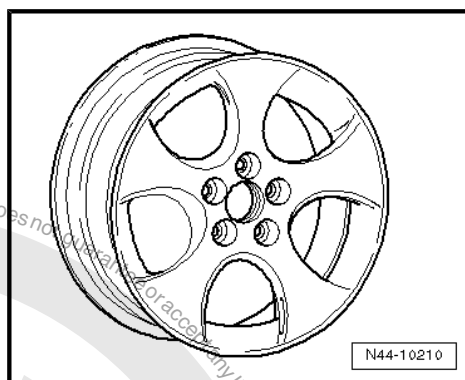
1K0 601 025 AM - Wheel/tire combination. Refer to ➤ [page 92](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615



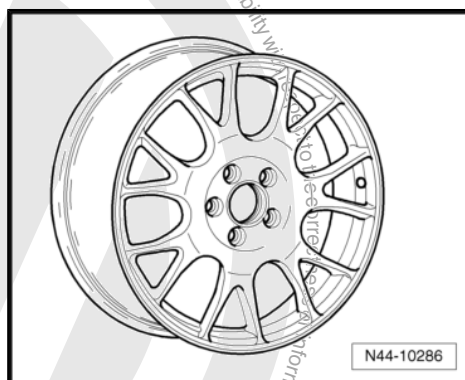
1K0 601 025 AT, 1K0 601 025 CC- Wheel/tire combination. Refer to ➤ [page 92](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615



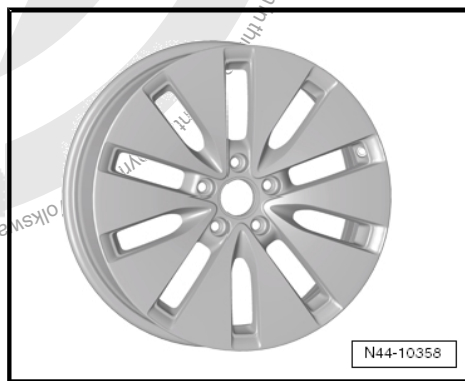
1K0 601 025 BE - wheel/tire combination. Refer to ➤ [page 92](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615





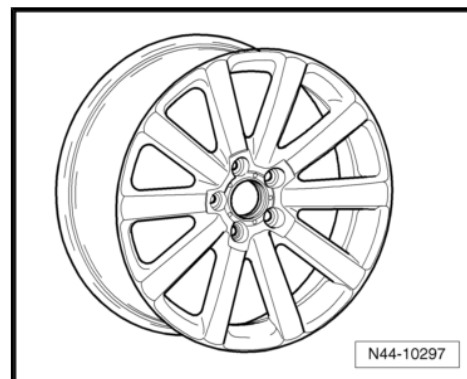
1K0 601 025 BL - Wheel/tire combination. Refer to ➔ [page 92](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615



3.2 Golf GTI, from MY 2010

➔ ["3.2.1 Golf GTI, Sales Type 5K, from MY 2010 through MY 2011", page 114](#)

➔ ["3.2.2 Wheel Assignment, Golf GTI, Type 5K, from MY 2010 through MY 2011", page 115](#)

➔ ["3.2.3 6 J x 16", page 115](#)

➔ ["3.2.4 6 \$\frac{1}{2}\$ J x 16", page 116](#)

➔ ["3.2.5 6 J x 17", page 121](#)

➔ ["3.2.6 7 J x 17", page 121](#)

➔ ["3.2.7 7 \$\frac{1}{2}\$ J x 17", page 125](#)

➔ ["3.2.8 7 \$\frac{1}{2}\$ J x 18", page 127](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Vortex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.2.1 Golf GTI, Sales Type 5K, from MY 2010 through MY 2011



Caution

The Golf GTI is listed according to the sales type and not to the type approval.

The type approval and the associated type approval number is listed as follows.

Golf GTI, Type Approval - type 1K

Supplement to parts certificate 8106803334

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide

Type Approval Number: e1*2001/116*0242*29 through
e1*2001/116*0242*34

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
2.0L 155 kW; Gasoline engine	Standard Tires	225/45 R 17 91W	7 1/2 J x 17 , refer to ⇒ "3.2.7 7 1/2 J x 17", page 125 .	51	No	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, refer to ⇒ "2.13 Snow Chains", page 89
	Modifica- tion	205/55 R 16 91W	6 1/2 J x 16, re- fer to ⇒ "3.2.4 6 1/2 J x 16", page 116	50	No	Volkswagen recommended tire brands:
		205/50 R 17 93W	6 J x 17, refer to ⇒ "3.2.5 6 J x 17", page 121 .	48,5	Yes* ⇒ page 115	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		225/45 R 17 91W	7 J x 17 , refer to ⇒ "3.2.6 7 J x 17", page 121 .	54	No	♦ Summer tires, refer to ⇒ "1.15.4 GTI, from MY 2009", page 58 . ♦ Winter tires, re- fer to ⇒ "1.17.4 GTI, from MY 2009", page 74 .
		225/40 R 18 92Y	7 1/2 J x 18 , refer to ⇒ "3.2.8 7 1/2 J x 18", page 127 .	51	No	
	Winter Tires	205/55 R 16 91Q/T/ H	6 J x 16 , refer to ⇒ "3.2.3 6 J x 16", page 115 .	50	Yes	
		205/50 R 17 93Q/T/ H	6 J x 17 , refer to ⇒ "3.2.5 6 J x 17", page 121 .	48,5	Yes* ⇒ page 115	* Only use snow chains with small links that do not project more than 8 mm. Refer to the Elec- tronic Parts Catalog (ETKA).

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.2.2 Wheel Assignment, Golf GTI, Type 5K, from MY 2010 through MY 2011

Golf GTI, Type Approval - Type 1K

Explanatory notes of indications on disc wheels, refer to
⇒ ["1.11.2 Disc Wheels, Identification", page 45](#) .

Wheel bolt tightening specifications, refer to ⇒ Suspension,
Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5

3.2.3 6 J x 16



Caution

*Pay attention to wheels/tires assignments for respective en-
gine versions which are listed in the overview table. Refer to
⇒ [page 114](#) .*



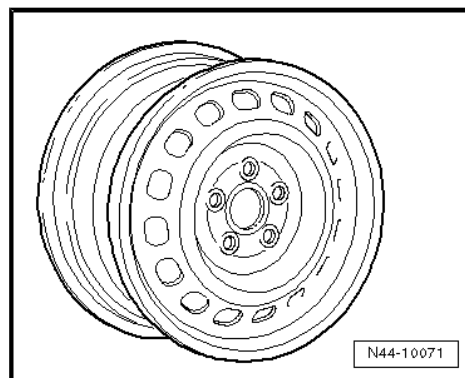
Winter Wheels

8P0 601 027 - Wheel/tire combination. Refer to ➔ [page 115](#)

Dimension:	6 J x 16
Offset in mm:	50
Wheel load in kg:	600

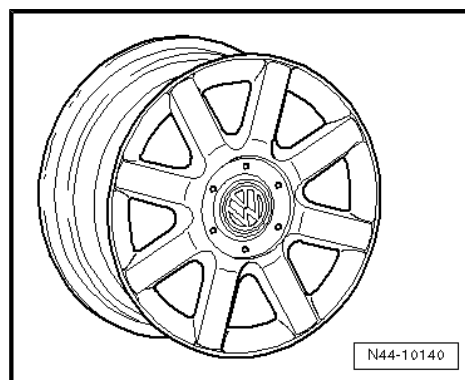
Use the following wheel bolt caps for the wheel bolts:

- ◆ 1K0.601.173 (4x per wheel)
- ◆ 1K0.601.173.A (1x per wheel)



1K0 601 025 Q - Wheel/tire combination. Refer to ➔ [page 115](#)

Dimension:	6 J x 16 EH2, refer to ➔ "1.11.2 Disc Wheels, Identification", page 45 .
Offset in mm:	50
Wheel load in kg:	615



3.2.4 6 1/2 J x 16

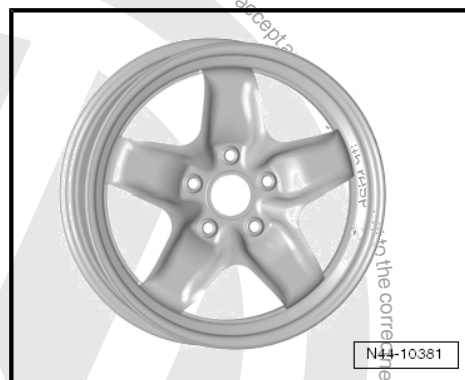


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 114](#).

5K0 601 027 - Wheel/tire combination. Refer to ➔ [page 114](#)

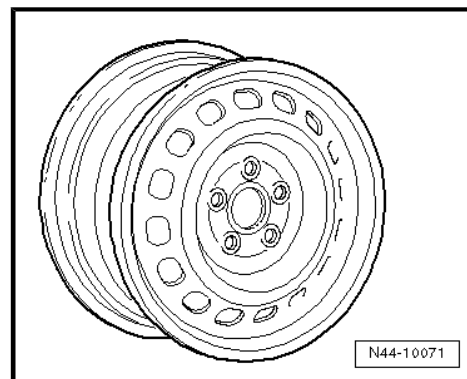
Dimension:	6 1/2 J x 16
Offset in mm:	50
Wheel load in kg:	615





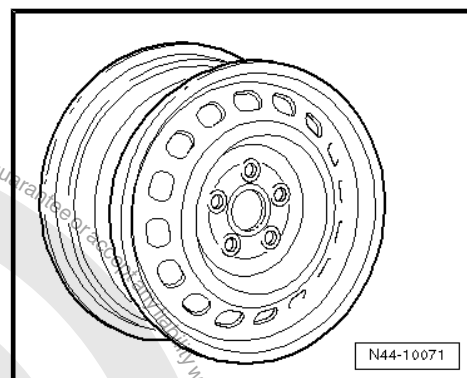
1K0 601,027 A - Wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



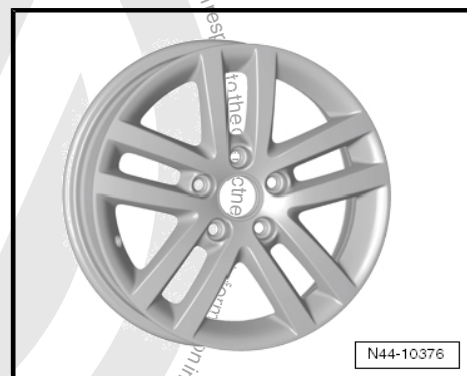
1K0 601 027 J, 1K0 601 027 K - wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



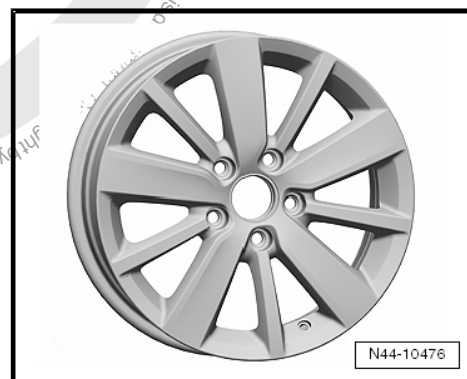
5K0 601 025 E - Wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



5K0 601 025 S - wheel/tire combination. Refer to ➤ page 114

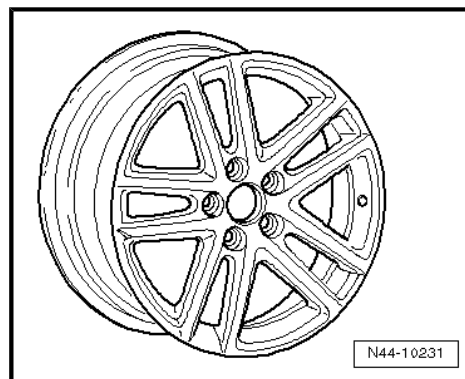
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





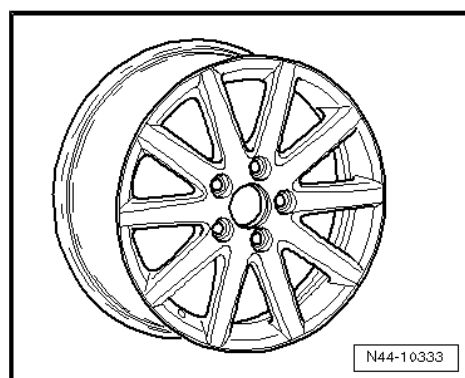
1K0 601 025 AJ - Wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



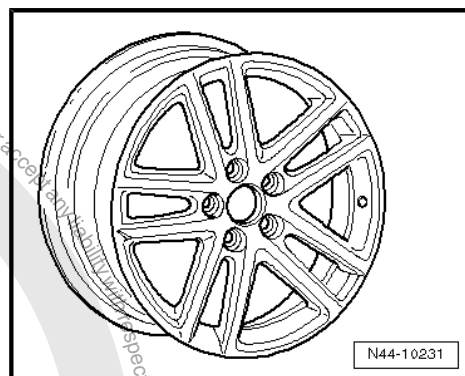
1K0 601 025 BC - wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



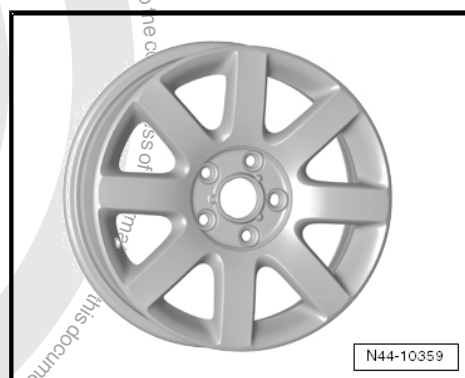
1K0 601 025 BM - wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BR - wheel/tire combination. Refer to ➤ page 114

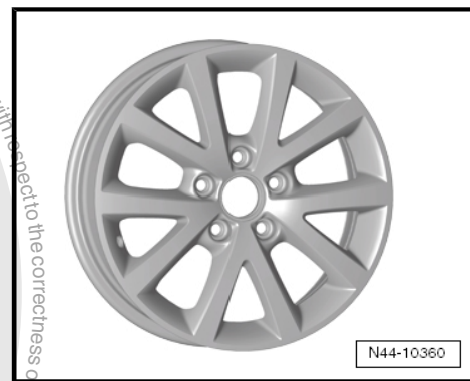
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





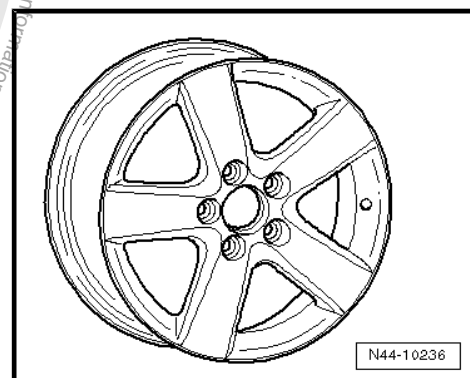
1K0 601 025 BS - wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



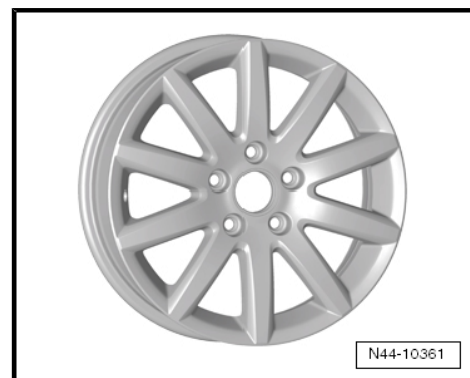
1K0 601 025 CB - Wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



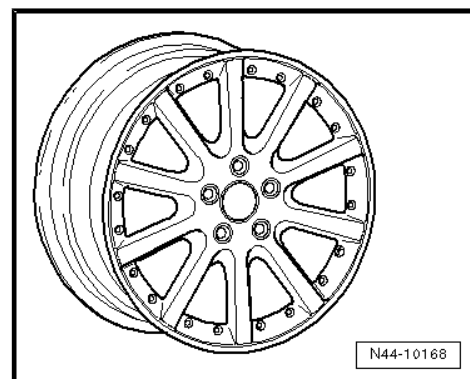
1K0 601 025 CG - wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 F - Wheel/tire combination. Refer to ➤ page 114

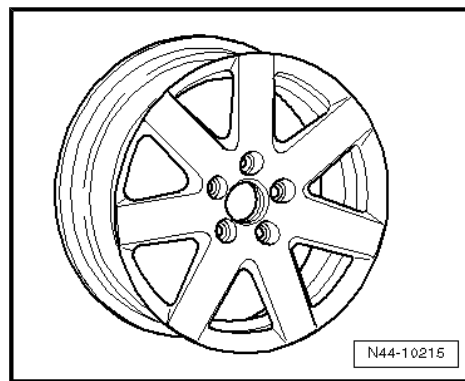
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





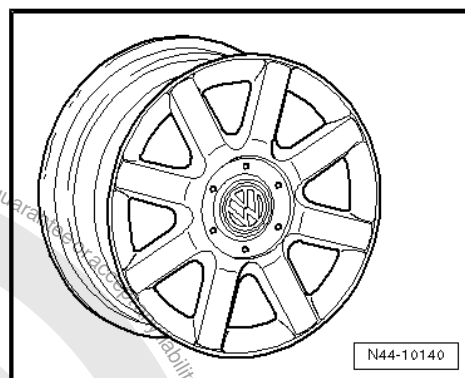
1K0 601 025 P - Wheel/tire combination. Refer to ➤ page 114 .

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



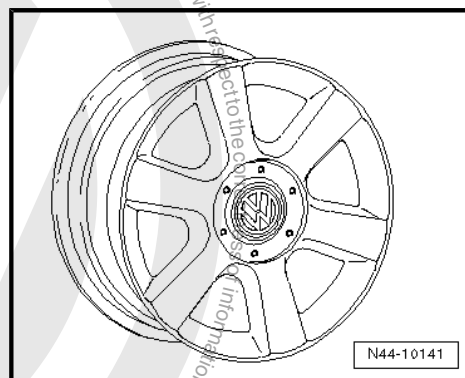
1K0 601 025 R - Wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



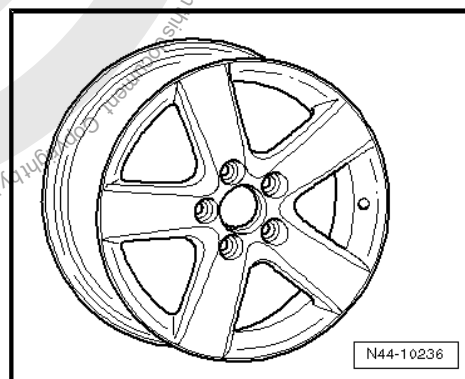
1T0 601 025 C - Wheel/tire combination. Refer to ➤ page 114 .

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 G; 1T0 601 025 K- Wheel/tire combination. Refer to ➤ page 114 .

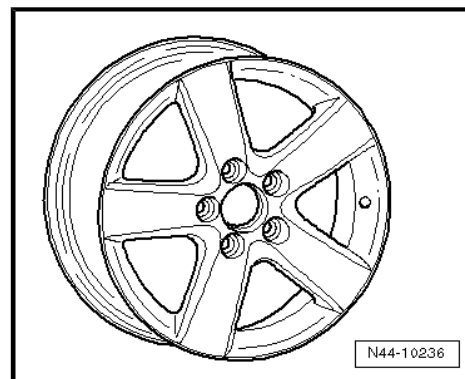
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





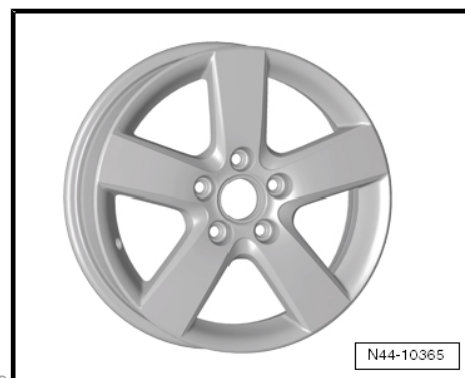
1T0 601 025 M - Wheel/tire combination. Refer to ➤ page 114 .

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 R - wheel/tire combination. Refer to ➤ page 114

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



3.2.5 6 J x 17



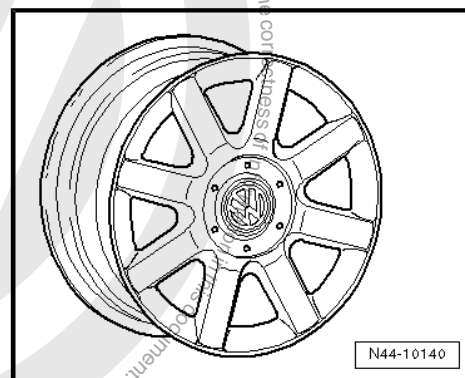
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 114 .

Winter tire

1K0 601 025 N Wheel/tire combination. Refer to ➤ page 115

Dimension:	6 J x 17
Offset in mm:	48,5
Wheel load in kg:	615



3.2.6 7 J x 17



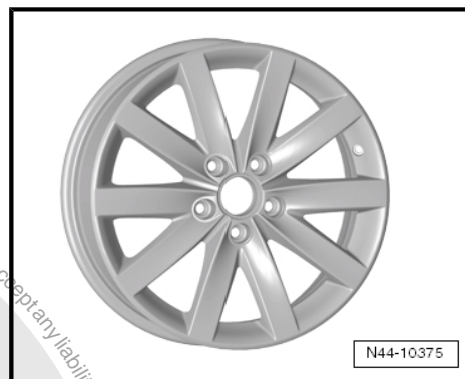
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 114 .



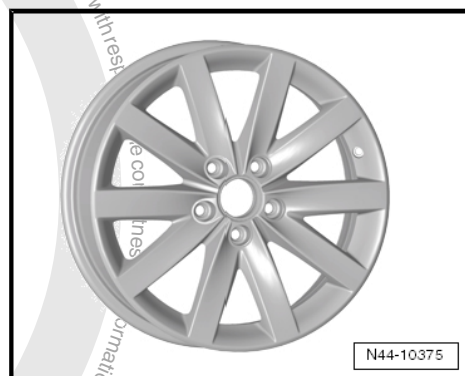
5K0 601 025 D - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 F - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 K - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 Q, 5K0 601 025 R - wheel/tire combination. Refer to ➤ page 115

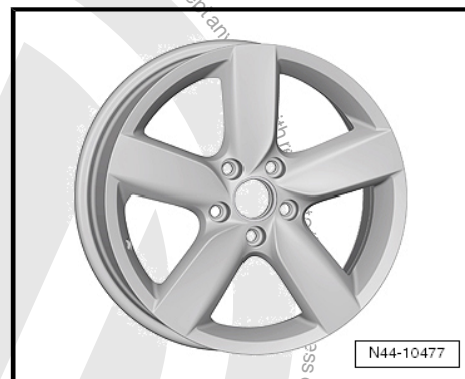
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





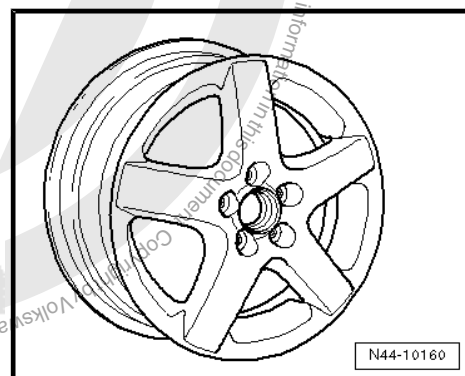
5K0 601 025 AA - wheel/tire combination. Refer to ➤ page 115

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



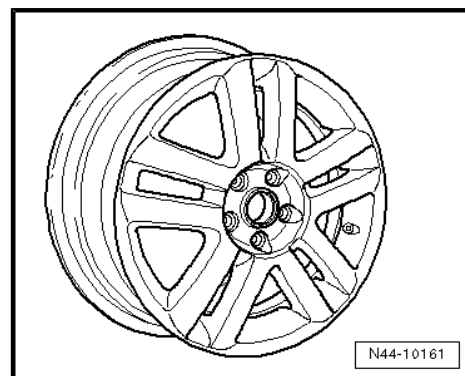
1K0 601,025 B - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



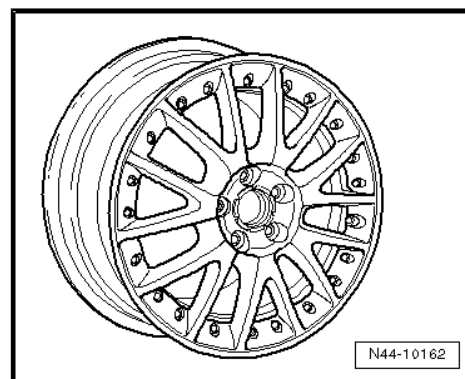
1K0 601,025 C - Wheel/tire combination. Refer to ➤ page 115 .

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



1K0 601,025 J - Wheel/tire combination. Refer to ➤ page 115

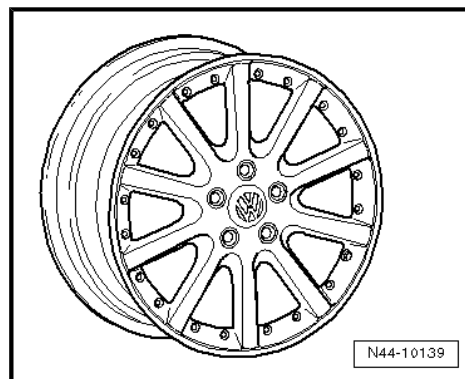
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





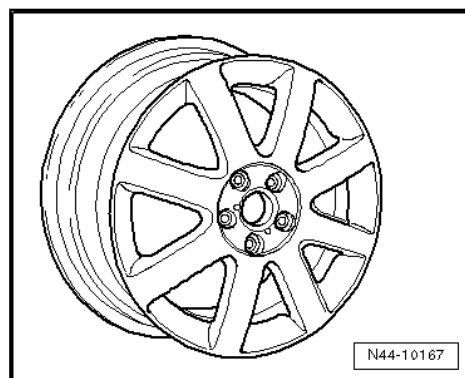
1K0 601,025 K - Wheel/tire combination. Refer to ➤ [page 115](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



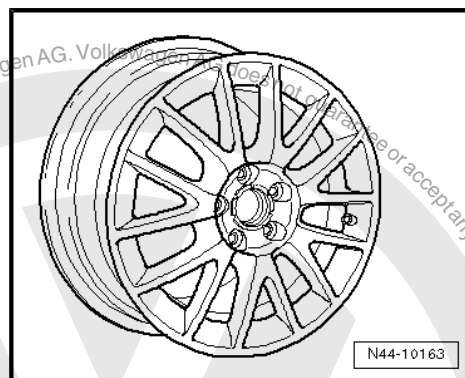
1K0 601 025 M - Wheel/tire combination. Refer to ➤ [page 115](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



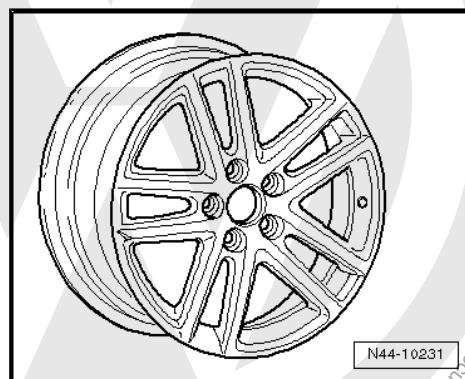
1K0 601 025 T - Wheel/tire combination. Refer to ➤ [page 115](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



1K0 601 025 AF - Wheel/tire combination. Refer to ➤ [page 115](#)

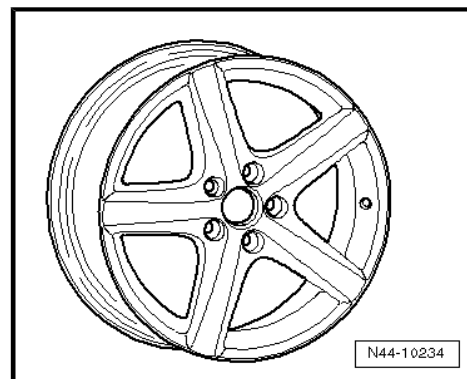
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630





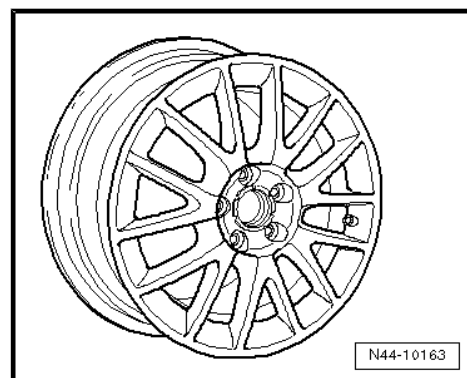
1K0 601 025 AE - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630



1K0 601 025 AN - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



3.2.7 7 1/2 J x 17



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 114 .

5K0 601,025 N - Wheel/tire combination. Refer to ➤ page 114

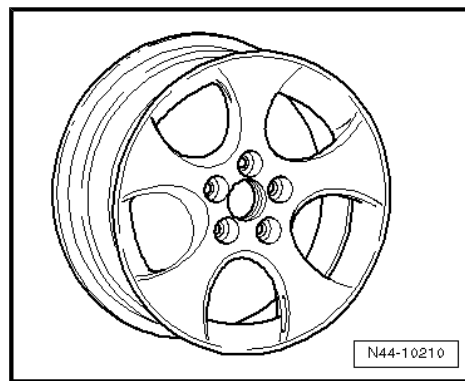
Dimension:	7 1/2 J x 17
Offset in mm:	51
Wheel load in kg:	630





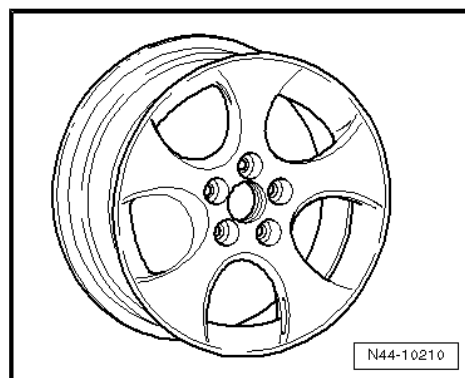
1K0 601 025 AC - Wheel/tire combination. Refer to ➤ page 114

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



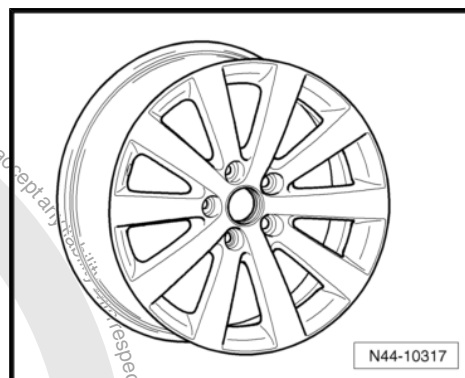
1K0 601 025 BB - Wheel/tire combination. Refer to ➤ page 114

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



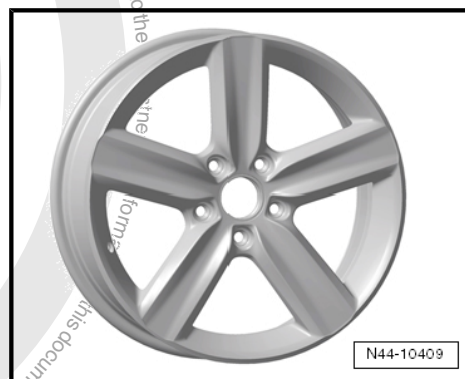
1K0 601 025 BK - Wheel/tire combination. Refer to ➤ page 114 .

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



5K0 601 025 G- wheel/tire combination. Refer to ➤ page 114 .

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	630





3.2.8 7¹/₂ J x 18

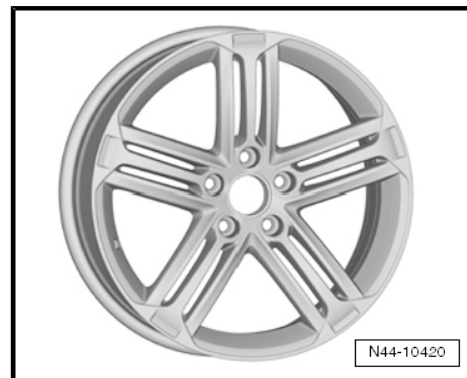


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 114](#) .

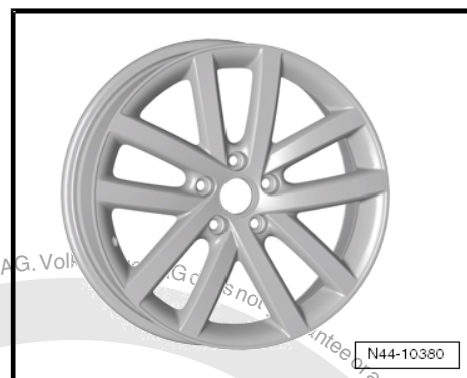
5K0 601 025 H- wheel/tire combination. Refer to ➔ [page 115](#)

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



5K0 601 025 L - Wheel/tire combination. Refer to ➔ [page 115](#)

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



5K0 601 025 P - wheel/tire combination. Refer to ➔ [page 115](#)

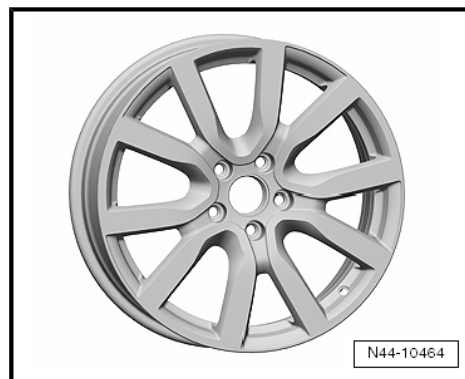
Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630





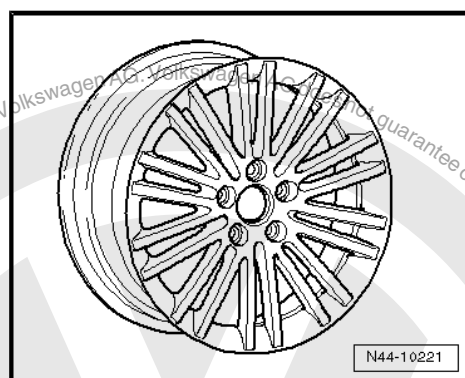
5K0 601 025 AC - wheel/tire combination. Refer to ➤ page 115

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



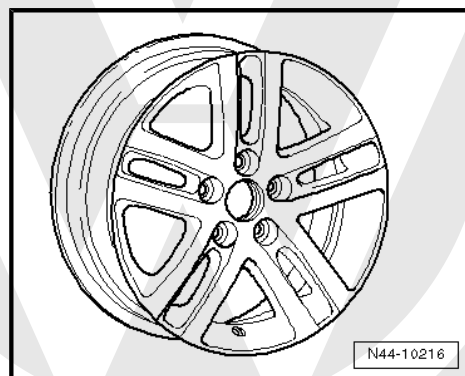
1K0 601 025 AD - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



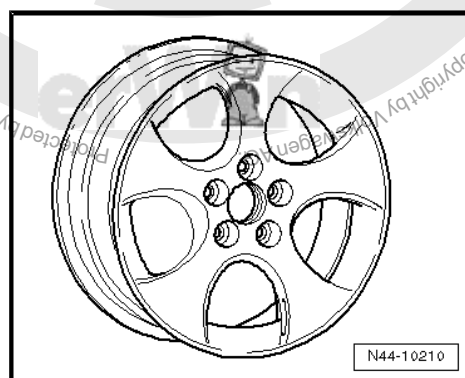
1K0 601 025 AG - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



1K0 601 025 AH - Wheel/tire combination. Refer to ➤ page 115

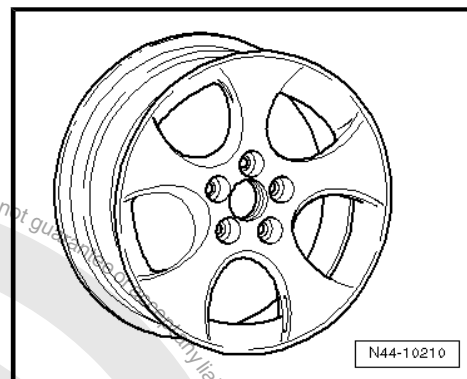
Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615





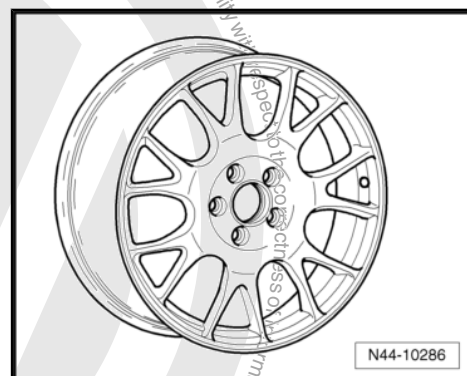
1K0 601 025 AM - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



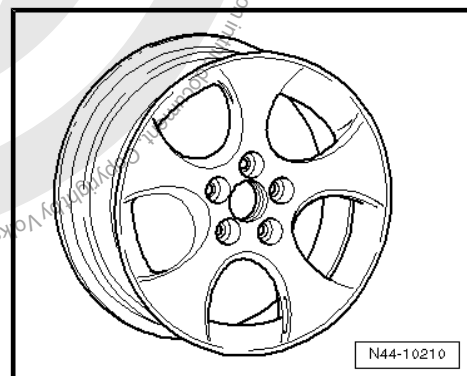
1K0 601 025 AT, 1K0 601 025 CC- Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



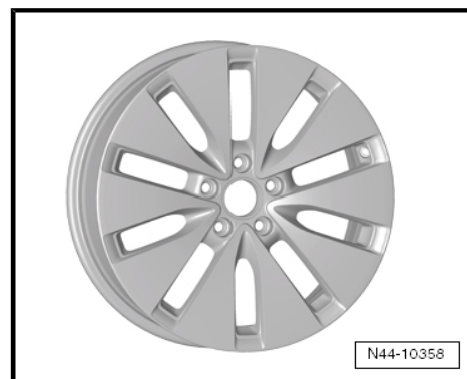
1K0 601 025 BA - Wheel/tire combination. Refer to ➤ page 115

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



1K0 601 025 BE - wheel/tire combination. Refer to ➤ page 115

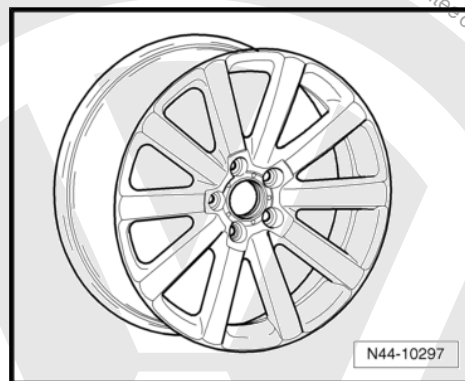
Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615





1K0 601 025 BL - Wheel/tire combination. Refer to ➔ [page 115](#)

Dimension:	7 1/2 J x 18
Offset in mm:	51
Wheel load in kg:	615



3.3 Golf R, from MY 10

➔ ["3.3.1 Golf R Sales Type 5K, MY 10", page 131](#)

➔ ["3.3.2 Golf R Sales Type 5K, MY 11", page 132](#)

➔ ["3.3.3 Wheel Assignment, Golf R, Type 5K, from MY 10 through MY 11", page 134](#)

➔ ["3.3.4 6 J x 17", page 134](#)

➔ ["3.3.5 7 J x 17", page 134](#)

➔ ["3.3.6 7 1/2 J x 17", page 135](#)

➔ ["3.3.7 7 1/2 J x 18", page 136](#)

➔ ["3.3.8 8 J x 19", page 139](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Votex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.3.1 Golf R Sales Type 5K, MY 10



Caution

The Golf R is listed according to the sales type and not to the type approval.

The type approval and the associated type approval number is listed as follows.

Golf R Type Approval 1K

Supplement to parts certificate 8106803334

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide

Type Approval Number: e1*2001/116*0242*33

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
2.0L 188 kW; 2.0L 199 kW; Gasoline engine	Standard Tires	225/40 R 18 92Y	7 ¹ / ₂ J x 18 , refer to "3.3.7 7¹/₂ J x 18" page 136	51	No	General information about: ◆ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ◆ Snow chains, refer to ⇒ "2.13 Snow Chains", page 89
	Modifica- tion	205/50 R 17 93W	7 J x 17 , refer to ⇒ "3.3.5 7 J x 17", page 134	47	No	Volkswagen recommended tire brands: ◆ Summer tires, refer to ⇒ "1.15.5 Golf R, from MY 10", page 59 ◆ Winter tires, refer to ⇒ "1.17.5 Golf R, from MY 10", page 74



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		225/45 R 17 94W	7 ¹ / ₂ J x 17 , refer to ⇒ "3.3.6 7 1/2 J x 17" , page 135	51	No	* 235/35 R 19 95Y tires are only per- mitted on 8 J x 19 ET 50 rims if the conditions lis- ted are met. Refer to ⇒ page 140
		235/35 R 19 91Y* ⇒ page 132	8 J x 19 , refer to ⇒ "3.3.8 8 J x 19" , page 139	50	No	
	Winter Tires	205/50 R 17 93Q/T/ H	6 J x 17 , refer to ⇒ "3.3.4 6 J x 17" , page 134	48,5	Yes** ⇒ page 132	** Only use snow chains with small links that do not project more than 8 mm. Refer to the Elec- tronic Parts Catalog (ETKA).

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires; Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.3.2 Golf R Sales Type 5K, MY 11



Caution

The Golf R is listed according to the sales type and not to the type approval.

The type approval and the associated type approval number is listed as follows:

Golf R Type Approval 1K

Supplement to parts certificate 8106803334

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires; Wheels and Tires, Wheel and Tire Guide



Type Approval Number: e1*2001/116*0242*34

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
2.0L 188 kW; 2.0L 199 kW; Gasoline engine	Standard Tires	225/40 R 18 92Y	7 1/2 J x 18, refer to ⇒ "3.3.7 7 1/2 J x 18", page 136 .	51	No	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, refer to ⇒ "2.13 Snow Chains", page 89
	Modification	205/50 R 17 93W	6 J x 17, refer to ⇒ "3.3.4 6 J x 17", page 134 .	48,5	Yes** ⇒ page 133	
		225/45 R 17 94W	7 1/2 J x 17, refer to ⇒ "3.3.6 7 1/2 J x 17", page 135 .	51	No	Volkswagen recommended tire brands: ♦ Summer tires, refer to ⇒ "1.15.5 Golf R, from MY 10", page 59 . ♦ Winter tires, refer to ⇒ "1.17.5 Golf R, from MY 10", page 74 .
		235/35 R 19 91Y* ⇒ page 133	8 J x 19, refer to ⇒ "3.3.8 8 J x 19", page 139 .	50	No	* 235/35 R 19 95Y tires are only permitted on 8 J x 19 ET 50 rims if the conditions listed are met. Refer to ⇒ page 140 .
	Winter Tires	205/50 R 17 93Q/T/H	6 J x 17, refer to ⇒ "3.3.4 6 J x 17", page 134 .	48,5	Yes** ⇒ page 133	** Only use snow chains with small links that do not project more than 8 mm. Refer to the Electronic Parts Catalog (ETKA).

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .



3.3.3 Wheel Assignment, Golf R, Type 5K, from MY 10 through MY 11

Golf R Type Approval 1K

Explanatory notes of indications on disc wheels, refer to
⇒ ["1.11.2 Disc Wheels, Identification", page 45](#).

Wheel bolt tightening specifications, refer to ⇒ Suspension,
Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5

3.3.4 6 J x 17



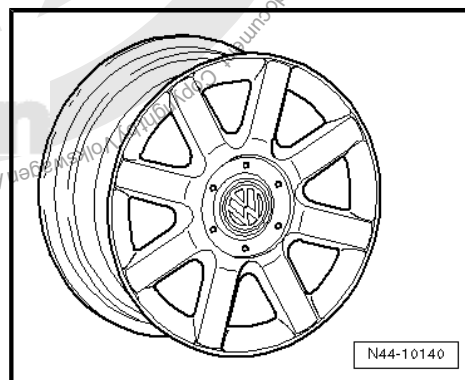
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 131](#) .

Winter tire

1K0 601 025 N - Wheel/tire combination. Refer to ⇒ [page 132](#)

Dimension:	6 J x 17
Offset in mm:	48,5
Wheel load in kg:	615



3.3.5 7 J x 17

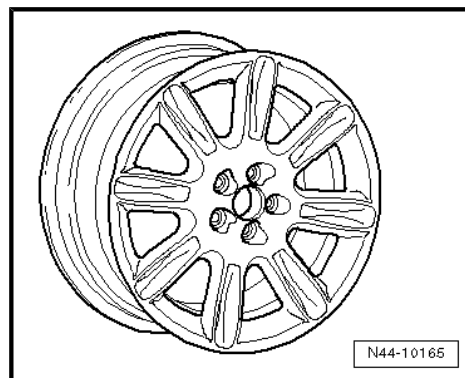


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 131](#) .

5M0 601 025 - Wheel/tire combination. Refer to ⇒ [page 131](#)

Dimension:	7 J x 17
Offset in mm:	47
Wheel load in kg:	630





3.3.6 7¹/₂ J x 17



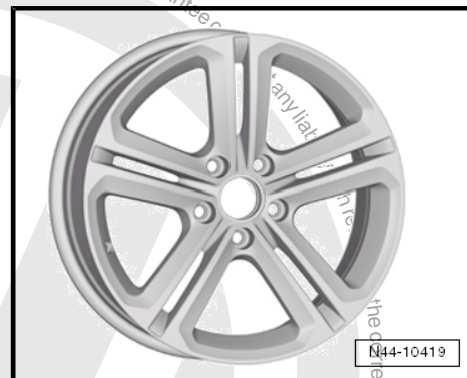
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 131](#) .

5K0 601,025 N - Wheel/tire combination. Refer to ➔ [page 132](#)

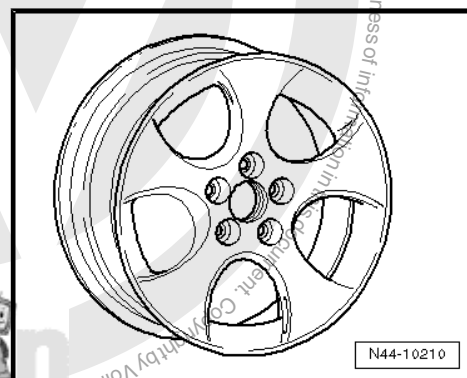
Only for vehicles with sport chassis

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	630



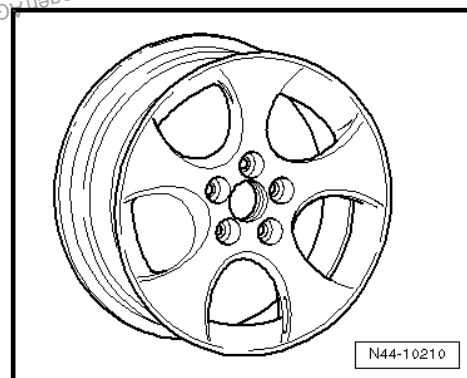
1K0 601 025 AC - Wheel/tire combination. Refer to ➔ [page 132](#)

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



1K0 601 025 BB - Wheel/tire combination. Refer to ➔ [page 132](#) .

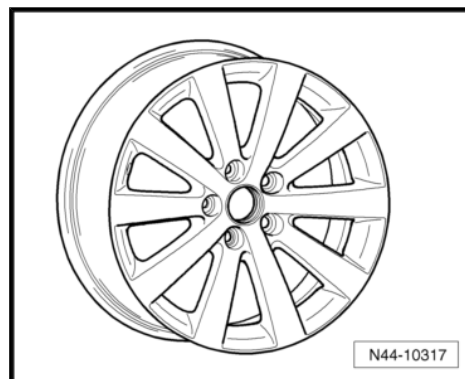
Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615





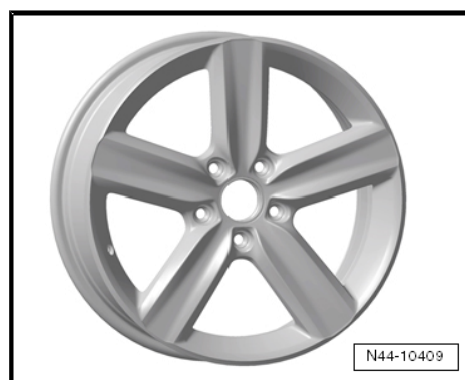
1K0 601 025 BK - Wheel/tire combination. Refer to ➔ [page 132](#)

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



5K0 601 025 G- wheel/tire combination. Refer to ➔ [page 132](#) .

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	630



3.3.7 7¹/₂ J x 18

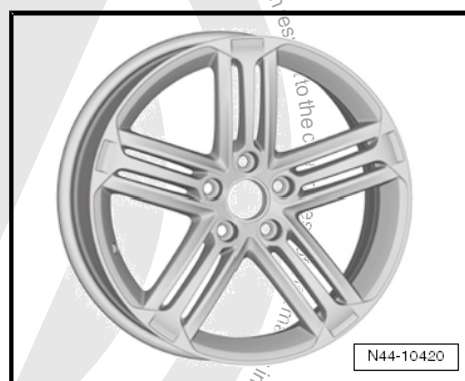


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 131](#) .

5K0 601 025 H- wheel/tire combination. Refer to ➔ [page 131](#)

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630





5K0 601 025 L - Wheel/tire combination. Refer to ➤ page 131

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



5K0 601 025 P - wheel/tire combination. Refer to ➤ page 131 .

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



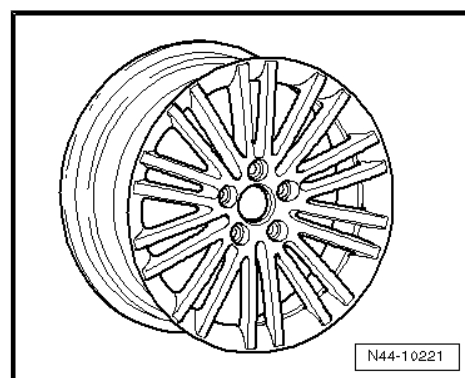
5K0 601 025 AC - wheel/tire combination. Refer to ➤ page 131

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



1K0 601 025 AD - Wheel/tire combination. Refer to ➤ page 131

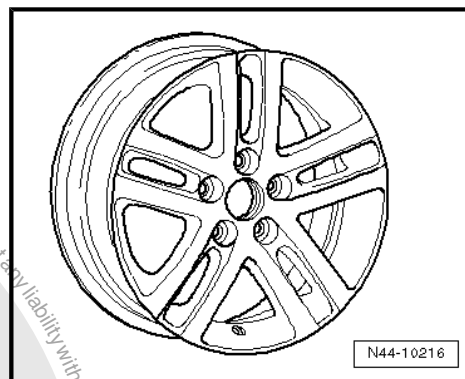
Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630





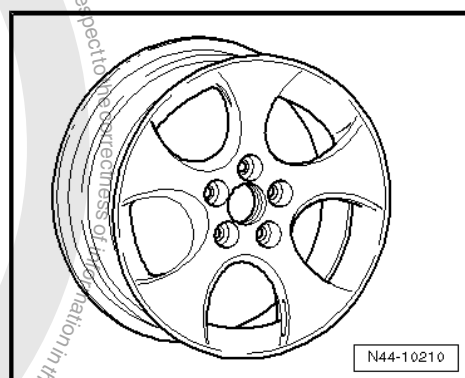
1K0 601 025 AG - Wheel/tire combination. Refer to ➤ [page 131](#)

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



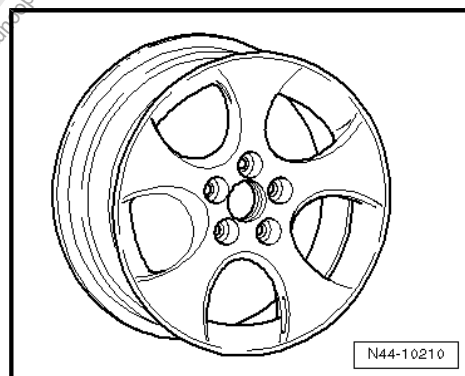
1K0 601 025 AH - Wheel/tire combination. Refer to ➤ [page 131](#)

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



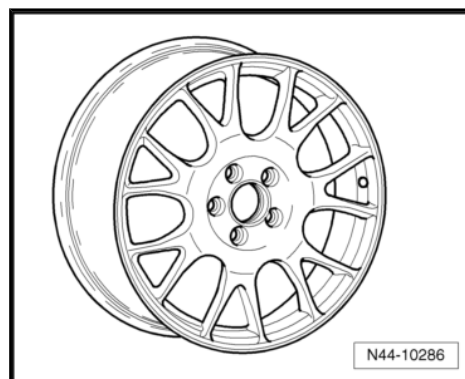
1K0 601 025 AM - Wheel/tire combination. Refer to ➤ [page 131](#)

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



1K0 601 025 AT, 1K0 601 025 CC- Wheel/tire combination. Refer to ➤ [page 131](#)

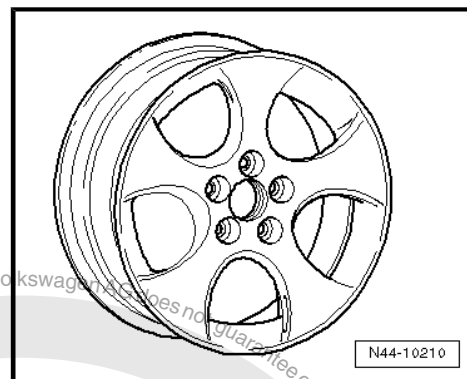
Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615





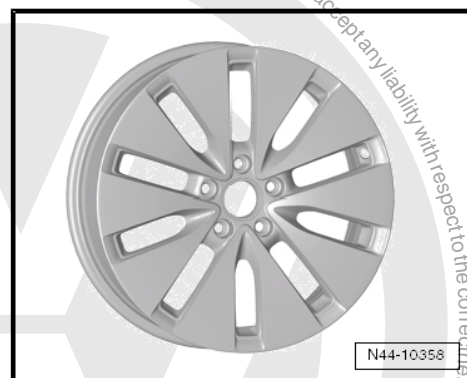
1K0 601 025 BA - Wheel/tire combination. Refer to ➤ page 131

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



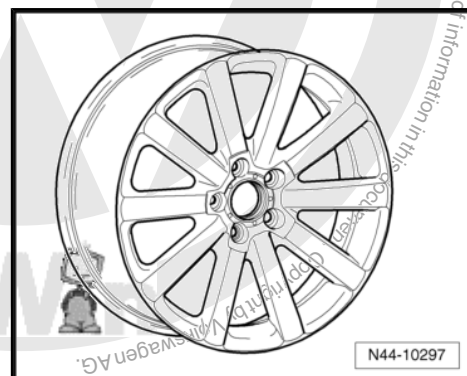
1K0 601 025 BE - wheel/tire combination. Refer to ➤ page 131

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



1K0 601 025 BL - Wheel/tire combination. Refer to ➤ page 131

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



3.3.8 8 J x 19



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 131.



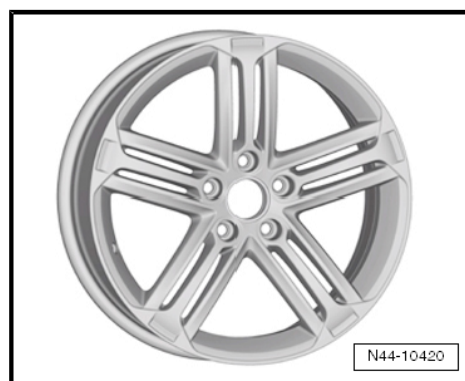
Caution

It is only possible to mount 8 J x 19 wheels under the following conditions:

- *The wheel may only be mounted on R vehicles that are already factory-equipped with 19 inch wheels.*
- *It is not possible to retrofit vehicles that have factory-installed 18 inch wheels.*
- *The suspension is adjusted the same way as the 18 inch suspension.*

5K0 601 025 M - wheel/tire combination. Refer to ➔ [page 132](#)

Dimension:	8 J x 19
Offset in mm:	50
Wheel load in kg:	630



3.4 Jetta Wagon, from MY 2010

⇒ ["3.4.1 Golf Wagon, Golf Wagon 4MOTION; SalesType AJ5, MY 10 through MY 11", page 141](#)

⇒ ["3.4.2 Wheel Allocation, Golf Wagon, Golf Wagon 4MOTION; SalesType AJ5, MY 10 through MY 11", page 150](#)

⇒ ["3.4.3 6 J x 15", page 150](#)

⇒ ["3.4.4 6 1/2 J x 15", page 151](#)

⇒ ["3.4.5 6 J x 16", page 152](#)

⇒ ["3.4.6 6 1/2 J x 16", page 153](#)

⇒ ["3.4.7 6 J x 17", page 158](#)

⇒ ["3.4.8 7 J x 17", page 158](#)

⇒ ["3.4.9 7 1/2 J x 17", page 162](#)

⇒ ["3.4.10 7 1/2 J x 18", page 164](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Votex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.4.1 Golf Wagon, Golf Wagon 4MOTION; SalesType AJ5, MY 10 through MY 11



Caution

The Golf Wagon and Golf Wagon 4MOTION is listed according to the sales type and not to the type approval.

The type approval and the associated type approval number is listed as follows.



Caution

*Follow the specifications for wheel/tire combinations from type approval number: **e1*2001/116*0328*17**. Refer to **⇒ page 145**.*

Golf Wagon, Type Approval - type 1KP

Supplement to parts certificate 8106803334

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.



Type Approval Number: e1*2001/116*0328*15 through
e1*2001/116*0328*16

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 75 kW; 1.4L 59 kW Gasoline engine	Standard Tires	195/65 R 15 91T	6 J x 15 ; refer to ⇒ <u>"3.4.3 6 J x 15"</u> , page 150	47	Yes	General information about: ♦ Winter tires, refer to ⇒ <u>"2.8 Winter Tires"</u> , page 85 ♦ Snow chains, re- fer to ⇒ <u>"2.13 Snow Chains"</u> , page 89
1.6L 77 kW TDI Diesel engine	Modification	195/65 R 15 91H/V	6 J x 15, re- fer to ⇒ <u>"3.4.3 6 J x 15"</u> , page 150	47	Yes	Volkswagen recom- mended tire brands:
		195/65 R 15 91T/H/V	6 1/2 J x 15 ; refer to ⇒ <u>"3.4.4 6 1/2 J x 15"</u> , page 151	50	Yes	♦ Summer tires, re- fer to ⇒ <u>"1.15.6 Jetta Wagon, from MY 2010"</u> , page 59 ♦ All-season tires, refer to ⇒ <u>"1.16.4 Jetta Wagon, from MY 2010"</u> , page 68 ♦ Winter tires, refer to ⇒ <u>"1.17.6 Jetta Wagon, from MY 2010"</u> , page 74
		205/60 R 15 91T/H/V	6 J x 15, re- fer to ⇒ <u>"3.4.3 6 J x 15"</u> , page 150	47	Yes	
		205/55 R 16 91T/H/V	6 1/2 J x 16 ; refer to ⇒ <u>"3.4.6 6 1/2 J x 16"</u> , page 153	50	No	
		225/45 R 17 91T/H/V	7 J x 17 ; refer to ⇒ <u>"3.4.8 7 J x 17"</u> , page 158	54	No	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		225/40 R 18 92Y* ⇒ page 143	7 ¹ / ₂ J x 18 , refer to ⇒ "3.4.10 71/2 J x 18", page 164	51	No	* Tire 225/40 R 18 92Y on rim 7 ¹ / ₂ J x 18 ET 51 is permissible only for vehicles with sport suspension and a camber value at rear axle of -1°45'! Refer to ⇒ page 164
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, re- fer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16 , refer to ⇒ "3.4.5 6 J x 16", page 152	50	Yes	
1.4L 90 kW Gasoline engine	Standard Tires	195/65 R 15 91H	6 J x 15, re- fer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
	Modification	195/65 R 15 91V	6 J x 15, re- fer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
		195/65 R 15 91H/V	6 ¹ / ₂ J x 15 ⇒ "3.4.4 61/2 J x 15", page 151	50	Yes	
		205/60 R 15 91H/V	6 J x 15, re- fer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
		205/55 R 16 91H/V/W	6 ¹ / ₂ J x 16, refer to ⇒ "3.4.6 61/2 J x 16", page 153	50	No	
		225/45 R 17 91H/V/W	7 J x 17, re- fer to ⇒ "3.4.8 7 J x 17", page 158	54	No	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		225/40 R 18 92Y* ⇒ page 144	7 ¹ / ₂ J x 18, refer to ⇒ "3.4.10 7 1/2 J x 18", page 164	51	No	* Tire 225/40 R 18 92Y on rim 7 ¹ / ₂ J x 18 ET 51 is permissible only for vehicles with sport suspension and a camber value at rear axle of -1°45'! Refer to ⇒ page 164
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, re- fer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ "3.4.5 6 J x 16", page 152	50	Yes	
2.0L 100 kW TDI 2.0L 103 kW TDI Diesel engine	Standard Tires	205/55 R 16 91H/V/W	6 ¹ / ₂ J x 16, refer to ⇒ "3.4.6 6 1/2 J x 16", page 153	50	No	
	Modification	225/45 R 17 91H/V/W	7 J x 17, re- fer to ⇒ "3.4.8 7 J x 17", page 158	54	No	
		225/40 R 18 92Y* ⇒ page 144	7 ¹ / ₂ J x 18, refer to ⇒ "3.4.10 7 1/2 J x 18", page 164	51	No	* Tire 225/40 R 18 92Y on rim 7 ¹ / ₂ J x 18 ET 51 is permissible only for vehicles with sport suspension and a camber value at rear axle of -1°45'! Refer to ⇒ page 164
1.4L 118 kW; Gasoline engine	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ "3.4.5 6 J x 16", page 152	50	Yes	
	Standard Tires	205/55 R 16 91V	6 ¹ / ₂ J x 16, refer to ⇒ "3.4.6 6 1/2 J x 16", page 153	50	No	
	Modification	225/45 R 17 91V/W	7 J x 17, re- fer to ⇒ "3.4.8 7 J x 17", page 158	54	No	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		225/40 R 18 92Y* ⇒ page 145	7 1/2 J x 18, refer to ⇒ "3.4.10 7 1/2 J x 18", page 164	51	No	* Tire 225/40 R 18 92Y on rim 7 1/2 J x 18 ET 51 is permissible only for vehicles with sport suspension and a camber value at rear axle of -1°45'! Refer to ⇒ page 164
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ "3.4.5 6 J x 16", page 152	50	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

Golf Wagon, Golf Wagon 4MOTION, Type Approval - Type 1KP

Supplement to parts certificate 8106803334

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number: **e1*2001/116*0328*17** through
e1*2001/116*0328*18

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.2L 63 kW; 1.2L 77 kW; 1.6L 75 kW; 1.4L 59 kW Gasoline engine	Standard Tires	195/65 R 15 91T	6 J x 15, refer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89
1.6L 66 kW TDI; Diesel engine	Modification	195/65 R 15 91H/V	6 J x 15, refer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	Volkswagen recom- mended tire brands:



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 77 kW TDI Diesel engine with FWD		195/65 R 15 91T/H/V	6 ¹ / ₂ J x 15, refer to ⇒ "3.4.4 61/2 J x 15", page 151	50	Yes	<ul style="list-style-type: none"> ♦ Summer tires, refer to ⇒ "1.15.6 Jetta Wagon, from MY 2010", page 59 ♦ All-season tires, refer to ⇒ "1.16.4 Jetta Wagon, from MY 2010", page 68 ♦ Winter tires, refer to ⇒ "1.17.6 Jetta Wagon, from MY 2010", page 74
		205/60 R 15 91T/H/V	6 J x 15, refer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
		205/55 R 16 91T/H/V	6 ¹ / ₂ J x 16, refer to ⇒ "3.4.6 61/2 J x 16", page 153	50	No	
		225/45 R 17 91T/H/V	7 J x 17, refer to ⇒ "3.4.8 7 J x 17", page 158	54	No	
		225/45 R 17 91T/H/V/ W * ⇒ page 146	7 ¹ / ₂ J x 17 , refer to ⇒ "3.4.9 71/2 J x 17", page 162	51	No	
		225/40 R 18 92Y** ⇒ page 146	7 ¹ / ₂ J x 18, refer to ⇒ "3.4.10 71/ 2 J x 18", page 164	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.4.5 6 J x 16", page 152	50	Yes	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 77 kW TDI Diesel engine with AWD	Standard Tires	205/55 R 16 91T/H/V	6 ¹ / ₂ J x 16, refer to ⇒ "3.4.6 61/2 J x 16", page 153	50	No	
	Modification	225/45 R 17 91T/H/V	7 J x 17, refer to ⇒ "3.4.8 7 J x 17", page 158	54	No	
		225/45 R 17 91T/H/V/ W * ⇒ page 147	7 ¹ / ₂ J x 17, refer to ⇒ "3.4.9 71/2 J x 17", page 162	51	No	* 225/45 R 17 91T/H/ V/W tires with a 7 ¹ / ₂ J x 17 ET 51 rim may only be used on a ve- hicle with a sport chassis!
		225/40 R 18 92Y** ⇒ page 147	7 ¹ / ₂ J x 18, refer to ⇒ "3.4.10 71/ 2 J x 18", page 164	51	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'! . Refer to ⇒ page 164 .
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.4.5 6 J x 16", page 152	50	Yes	
1.4L 90 kW Gasoline engine	Standard Tires	195/65 R 15 91H	6 J x 15, refer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
	Modification	195/65 R 15 91V	6 J x 15, refer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
		195/65 R 15 91H/V	6 ¹ / ₂ J x 15, refer to ⇒ "3.4.4 61/2 J x 15", page 151	50	Yes	
		205/60 R 15 91H/V	6 J x 15, refer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		205/55 R 16 91H/V/W	6 1/2 J x 16, refer to ⇒ "3.4.6 6 1/2 J x 16", page 153	50	No	<p>* Only use snow chains with small links that do not project more than 8 mm. Refer to the Electronic Parts Catalog (ETKA).</p> <p>** 225/45 R 17 91T/H/V/W tires with a 7 1/2 J x 17 ET 51 rim may only be used on a vehicle with a sport suspension!</p> <p>*** 225/40 R 18 92Y tire on a 7 1/2 J x 18 ET 51 rim is permitted only on vehicles with a Sport suspension and camber value of 1°45' on the rear axle! Refer to page 164</p>
		205/50 R 17 93H/V/W	6 J x 17, refer to ⇒ "3.4.7 6 J x 17", page 158	48,5	Yes* ⇒ page 148	
		225/45 R 17 91H/V/W	7 J x 17, refer to ⇒ "3.4.8 7 J x 17", page 158	54	No	
		225/45 R 17 91H/V/W** ⇒ page 148	7 1/2 J x 17, refer to ⇒ "3.4.9 7 1/2 J x 17", page 162	51	No	
		225/40 R 18 92Y*** ⇒ page 148	7 1/2 J x 18, refer to ⇒ "3.4.10 7 1/2 J x 18", page 164	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ "3.4.3 6 J x 15", page 150	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.4.5 6 J x 16", page 152	50	Yes	
2.0L 100 kW TDI 2.0L 103 kW TDI Diesel engine	Standard Tires	205/55 R 16 91H/V/W	6 1/2 J x 16, refer to ⇒ "3.4.6 6 1/2 J x 16", page 153	50	No	
	Modification	225/45 R 17 91H/V/W	7 J x 17, refer to ⇒ "3.4.8 7 J x 17", page 158	54	No	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.4L 118 kW; Gasoline engine		225/45 R 17 91H/V/W * ⇒ page 149	7 ¹ / ₂ J x 17, refer to ⇒ "3.4.9 71/2 J x 17", page 162	51	No	* 225/45 R 17 91T/H/ V/W tires with a 7 ¹ / ₂ J x 17 ET 51 rim may only be used on a ve- hicle with a sport chassis!
		225/40 R 18 92Y** ⇒ page 149	7 ¹ / ₂ J x 18, refer to ⇒ "3.4.10 71/ 2 J x 18", page 164	51	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'! Refer to ⇒ page 164
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.4.5 6 J x 16", page 152	50	Yes	
	Standard Tires	205/55 R 16 91V	6 ¹ / ₂ J x 16 ⇒ "3.4.6 61/2 J x 16", page 153	50	No	
	Modification	205/50 R 17 93V/W	6 J x 17, refer to ⇒ "3.4.7 6 J x 17", page 158	48,5	Yes* ⇒ page 148	
		225/45 R 17 91V/W	7 J x 17, refer to ⇒ "3.4.8 7 J x 17", page 158	54	No	
		225/45 R 17 91V/W * ⇒ page 149	7 ¹ / ₂ J x 17, refer to ⇒ "3.4.9 71/2 J x 17", page 162	51	No	* 225/45 R 17 91T/H/ V/W tires with a 7 ¹ / ₂ J x 17 ET 51 rim may only be used on a ve- hicle with a sport chassis!
		225/40 R 18 92Y** ⇒ page 149	7 ¹ / ₂ J x 18, refer to ⇒ "3.4.10 71/ 2 J x 18", page 164	51	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'! Refer to ⇒ page 164 .
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.4.5 6 J x 16", page 152	50	Yes	



Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.4.2 Wheel Allocation, Golf Wagon, Golf Wagon 4MOTION; SalesType AJ5, MY 10 through MY 11

Explanatory notes of indications on disc wheels, refer to ⇒ ["1.11.2 Disc Wheels, Identification", page 45](#) .

Wheel bolt tightening specifications, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5

3.4.3 6 J x 15

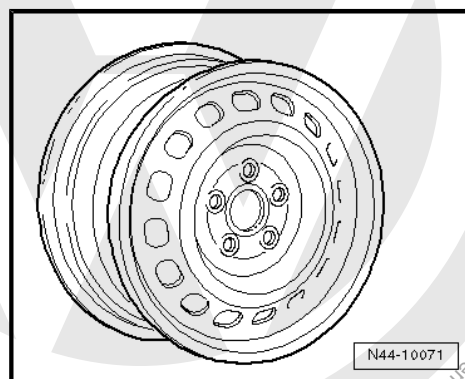


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 142](#) .

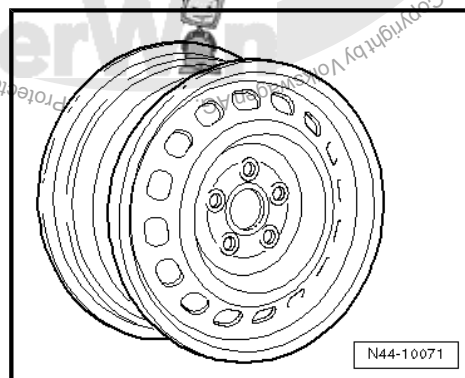
1K0 601 027 C, 1K0 601 027 H - wheel/tire combination. Refer to ⇒ [page 142](#)

Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	615



1K0 601,027 T - Wheel/tire combination. Refer to ⇒ [page 142](#)

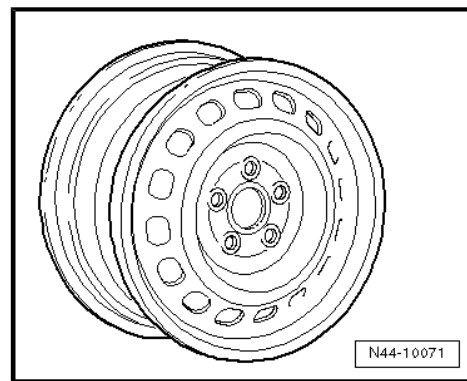
Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	615





2K0 601 027 - Wheel/tire combination. Refer to ➤ page 142

Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	650



3.4.4 6¹/₂ J x 15

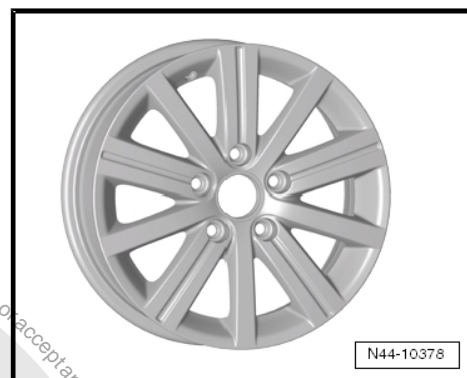


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 142 .

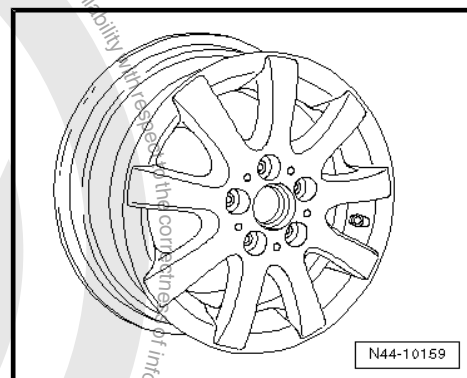
5K0 601 025 J - Wheel/tire combination. Refer to ➤ page 142

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



1K0 601,025 A - Wheel/tire combination. Refer to ➤ page 142

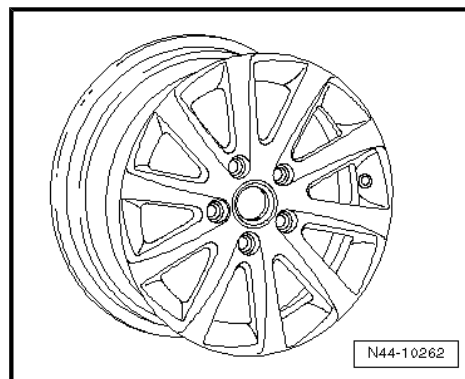
Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600





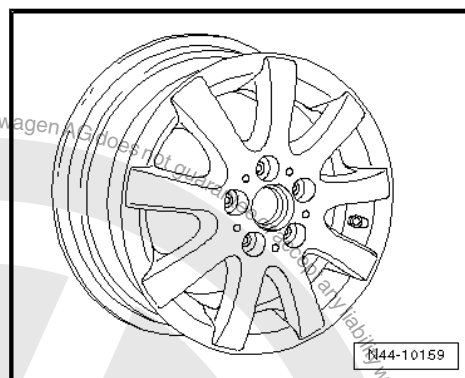
1K0 601 025 AK - Wheel/tire combination. Refer to ➔ page 142

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



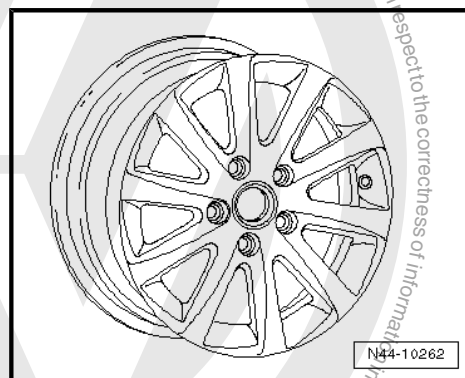
1K0 601 025 AQ - Wheel/tire combination. Refer to ➔ page 142

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



1K0 601 025 CA - Wheel/tire combination. Refer to ➔ page 142

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



3.4.5 6 J x 16



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 142.





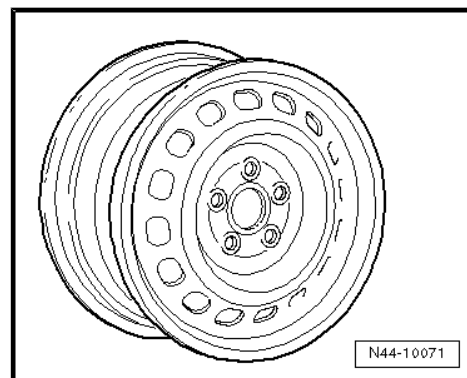
Winter wheels

8P0 601 027 - Wheel/tire combination. Refer to ➤ [page 143](#)

Dimension:	6 J x 16
Offset in mm:	50
Wheel load in kg:	600

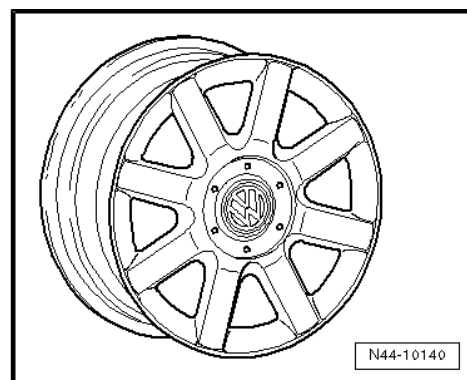
Use the following wheel bolt caps for the wheel bolts:

- ◆ 1K0.601.173 (4x per wheel)
- ◆ 1K0.601.173.A (1x per wheel)



1K0 601 025 Q - Wheel/tire combination. Refer to ➤ [page 143](#)

Dimension:	6 J x 16 EH2, refer to ➤ "1.11.2 Disc Wheels, Identification", page 45 .
Offset in mm:	50
Wheel load in kg:	615



3.4.6 6¹/₂ J x 16

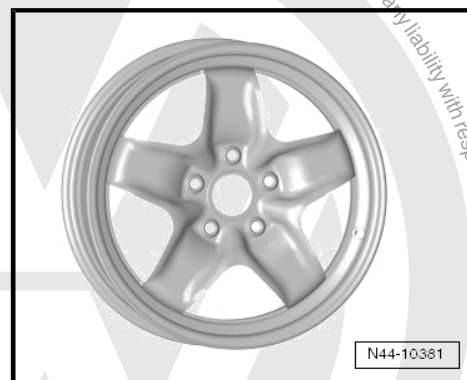


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ [page 142](#).

5K0 601 027 - Wheel/tire combination. Refer to ➤ [page 142](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





5K0 601 025 E - Wheel/tire combination. Refer to ➤ page 142

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



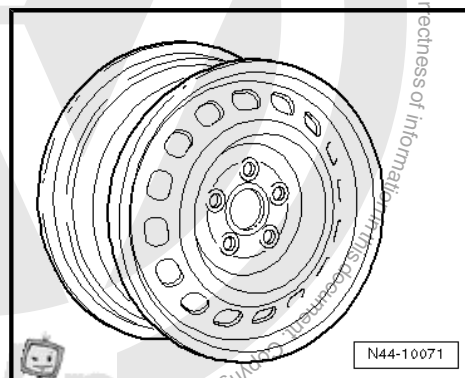
5K0 601 025 S - wheel/tire combination. Refer to ➤ page 142 .

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



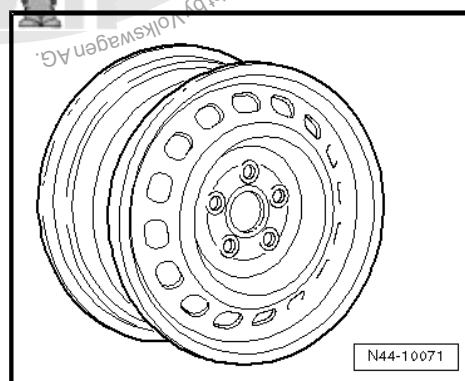
1K0 601 027 A, 1K0 601 027 AK - wheel/tire combination. Refer to ➤ page 142

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 027 J, 1K0 601 027 K - wheel/tire combination. Refer to ➤ page 142 .

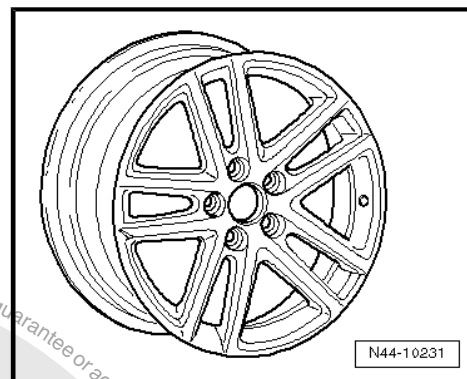
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





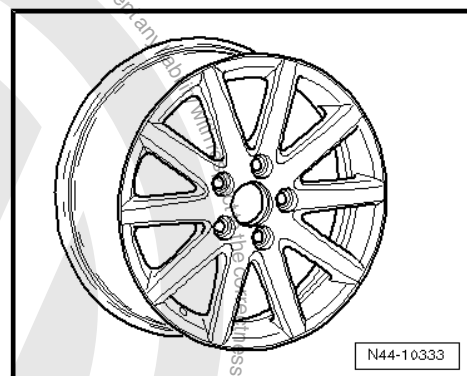
1K0 601 025 AJ - Wheel/tire combination. Refer to ➤ page 142

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



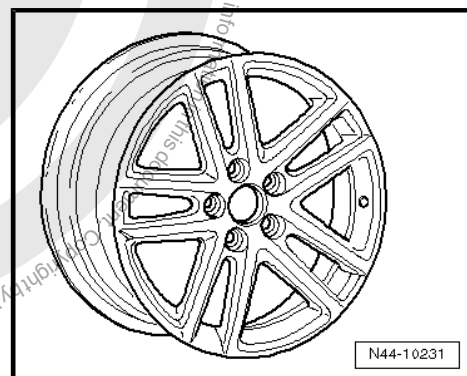
1K0 601 025 BC - wheel/tire combination. Refer to ➤ page 142

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BM - wheel/tire combination. Refer to ➤ page 142

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BR - wheel/tire combination. Refer to ➤ page 142 .

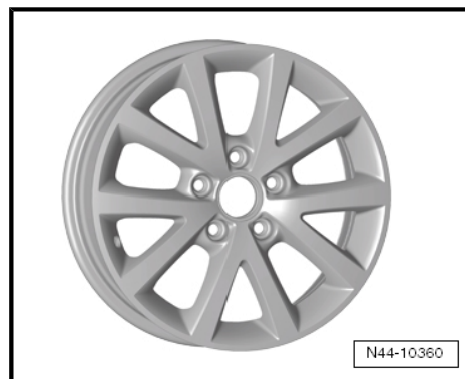
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





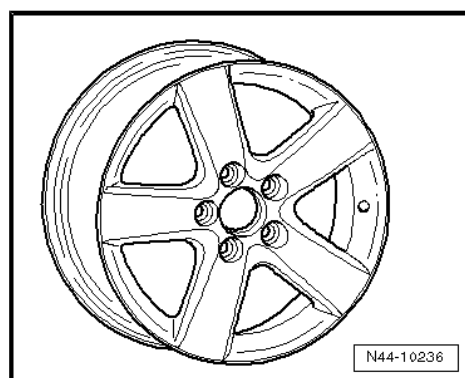
1K0 601 025 BS, 1K0 601 025 CH- wheel/tire combination. Refer to ➤ [page 142](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



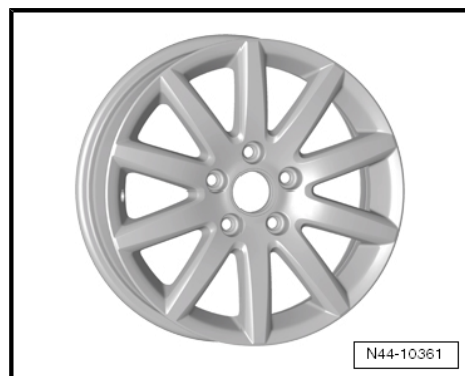
1K0 601 025 CB - Wheel/tire combination. Refer to ➤ [page 142](#) .

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



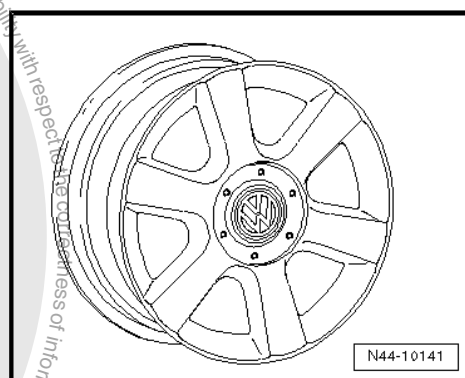
1K0 601 025 CG - wheel/tire combination. Refer to ➤ [page 142](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 C - Wheel/tire combination. Refer to ➤ [page 142](#)

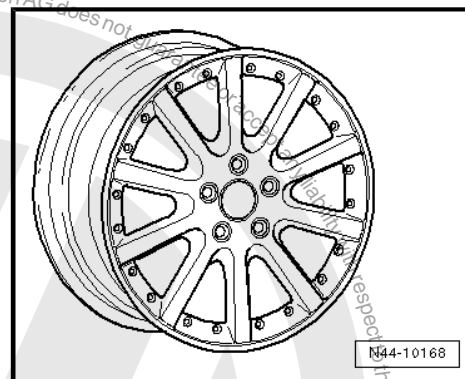
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





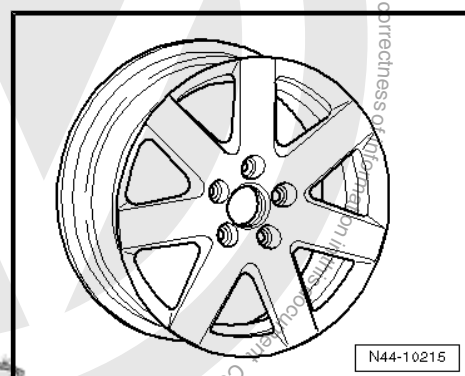
1K0 601 025 F - Wheel/tire combination. Refer to ➤ page 142

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



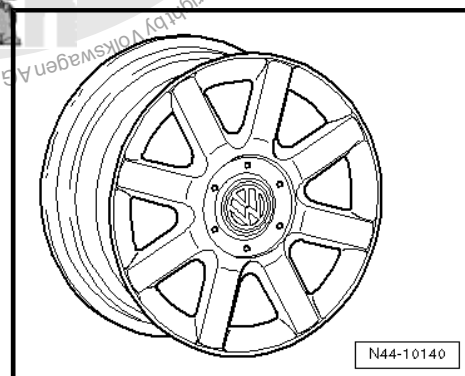
1K0 601 025 P - Wheel/tire combination. Refer to ➤ page 142

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



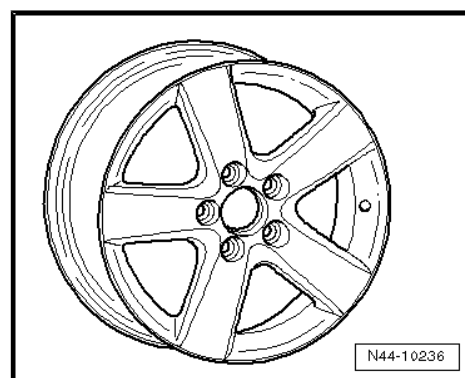
1K0 601 025 R - Wheel/tire combination. Refer to ➤ page 142

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 G; 1T0 601 025 K- Wheel/tire combination. Refer to ➤ page 142

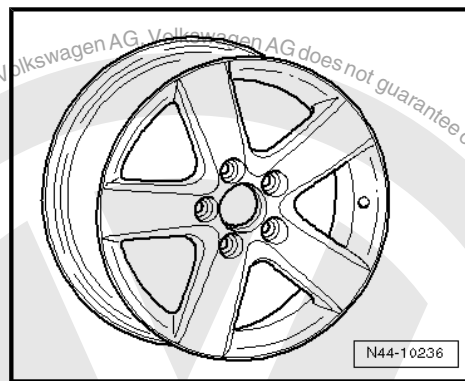
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





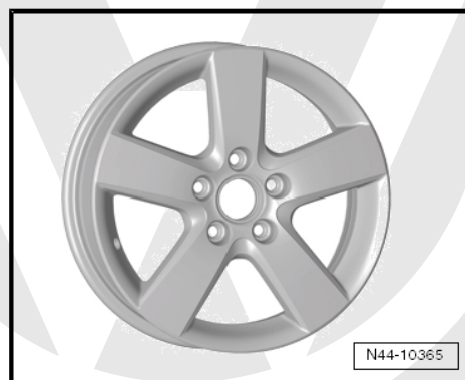
1T0 601 025 M - Wheel/tire combination. Refer to ➤ page 142

Dimension:	6 1/2 J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 R - wheel/tire combination. Refer to ➤ page 142

Dimension:	6 1/2 J x 16
Offset in mm:	50
Wheel load in kg:	615



3.4.7 6 J x 17

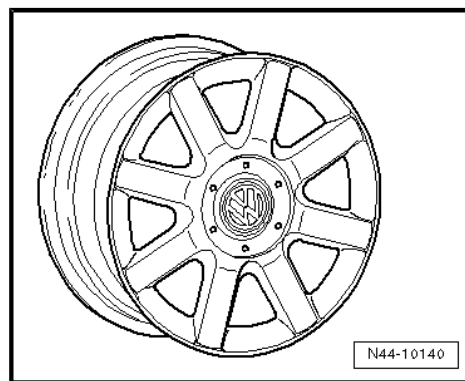


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 142 .

1K0 601 025 N - Wheel/tire combination. Refer to ➤ page 148

Dimension:	6 J x 17
Offset in mm:	48,5
Wheel load in kg:	615



3.4.8 7 J x 17



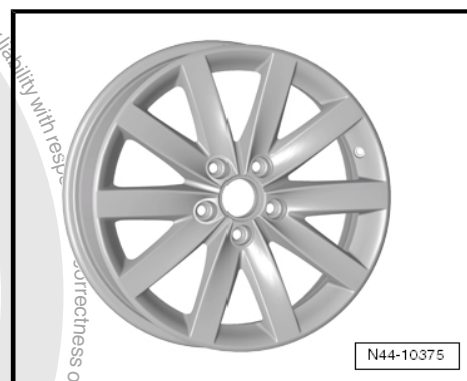
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 142 .



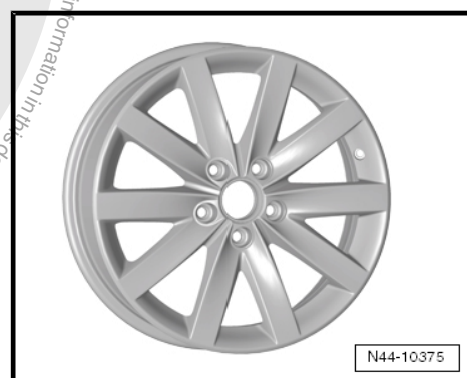
5K0 601 025 D - Wheel/tire combination. Refer to ➤ [page 142](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 F - Wheel/tire combination. Refer to ➤ [page 142](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 K - Wheel/tire combination. Refer to ➤ [page 142](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 Q, 5K0 601 025 R - wheel/tire combination. Refer to ➤ [page 142](#)

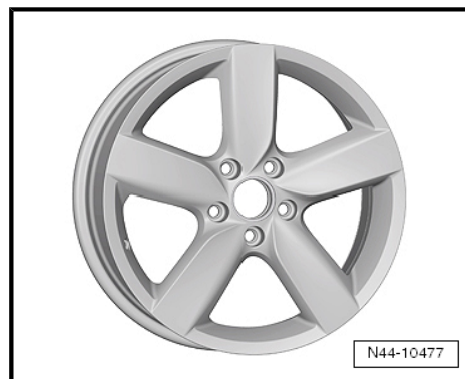
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





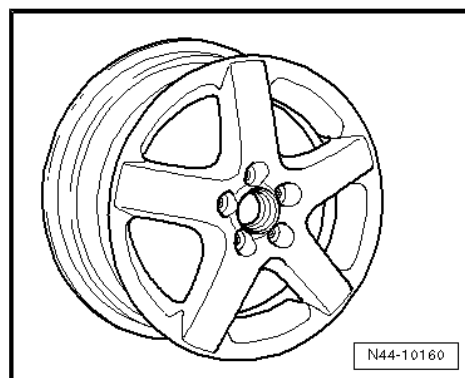
5K0 601 025 AA - wheel/tire combination. Refer to ➤ [page 142](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



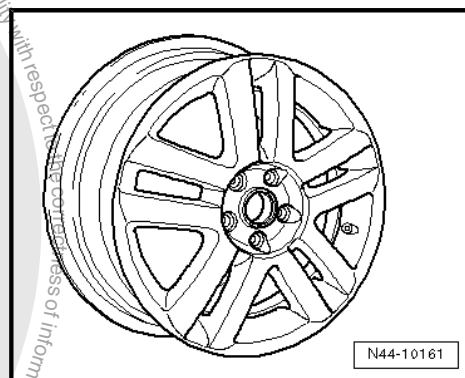
1K0 601,025 B - Wheel/tire combination. Refer to ➤ [page 142](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



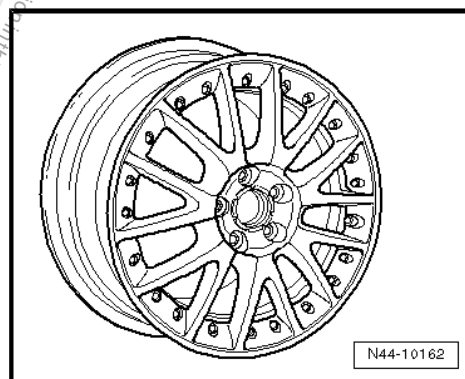
1K0 601,025 C - Wheel/tire combination. Refer to ➤ [page 142](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



1K0 601,025 J - Wheel/tire combination. Refer to ➤ [page 142](#)

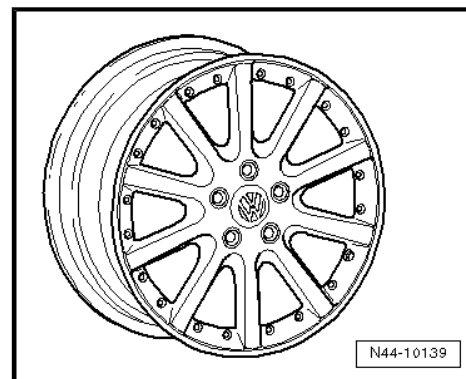
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





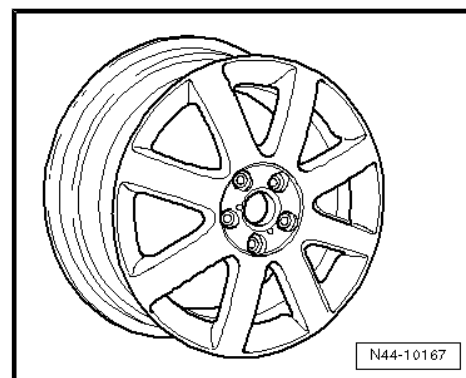
1K0 601,025 K - Wheel/tire combination. Refer to ➤ page 142

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



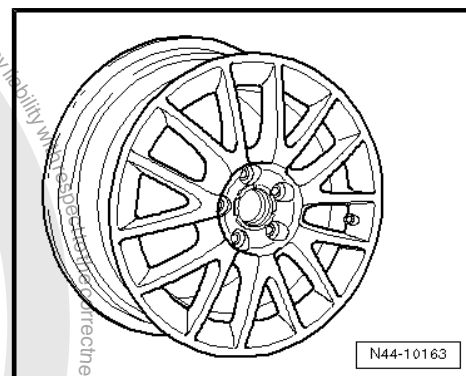
1K0 601 025 M - Wheel/tire combination. Refer to ➤ page 142

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



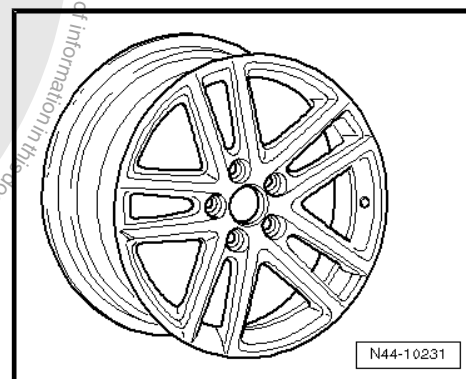
1K0 601 025 T - Wheel/tire combination. Refer to ➤ page 142 .

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



1K0 601 025 AF - Wheel/tire combination. Refer to ➤ page 142

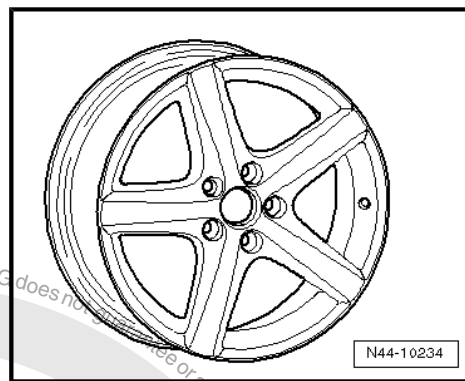
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630





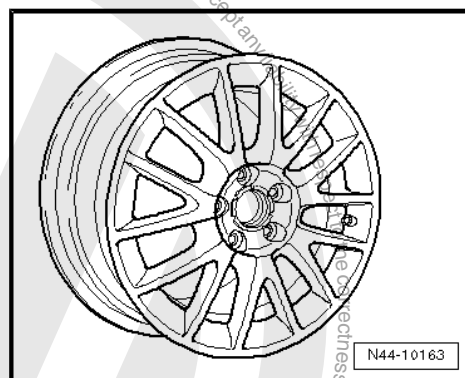
1K0 601 025 AE - Wheel/tire combination. Refer to ➔ page 142

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630



1K0 601 025 AN - Wheel/tire combination. Refer to ➔ page 142

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



3.4.9 7¹/₂ J x 17



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 142.

5K0 601,025 N - Wheel/tire combination. Refer to ➔ page 146



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	630





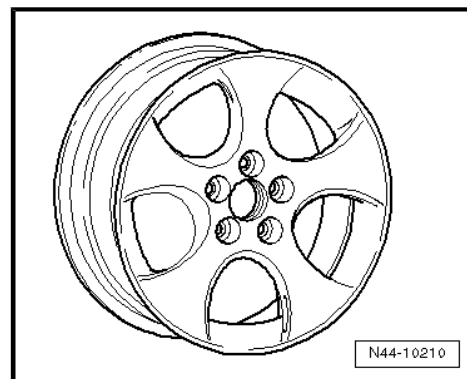
1K0 601 025 BB - Wheel/tire combination. Refer to ➤ page 146



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



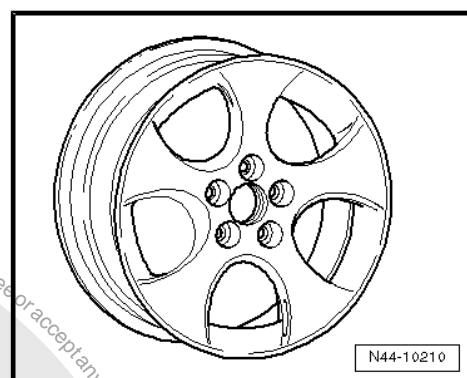
1K0 601 025 AC - Wheel/tire combination. Refer to ➤ page 146



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



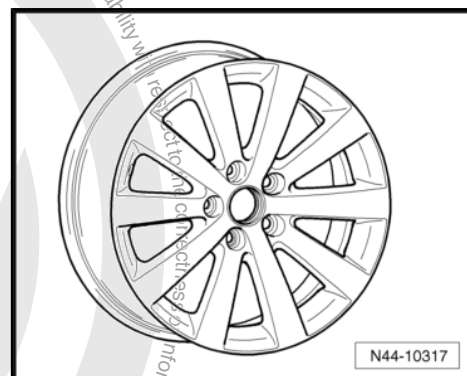
1K0 601 025 BK - Wheel/tire combination. Refer to ➤ page 146



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



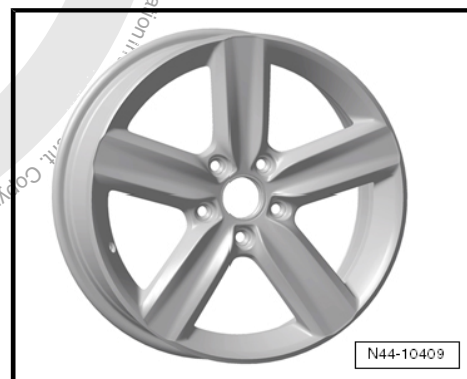
5K0 601 025 G- wheel/tire combination. Refer to ➤ page 146



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	630





3.4.10 7¹/₂ J x 18



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 142](#).



Caution

It is possible to mount 7¹/₂ J x 18-wheels only under the following conditions:

- Additional wheelhouse enlargements (FLAPS) must be installed (FLAPS) must be installed on the rear axle Electronic Parts Catalog (ETKA). Refer to ⇒ ["1.2.3 Additional Wheel Housing Enlargement, FLAPS", page 4](#).*

5K0 601 025 H- wheel/tire combination. Refer to ⇒ [page 143](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



N44-10420

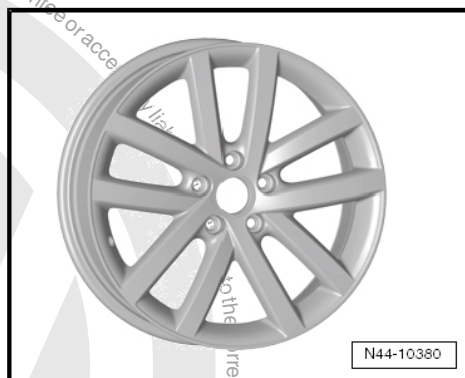
5K0 601 025 L - Wheel/tire combination. Refer to ⇒ [page 143](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



N44-10380

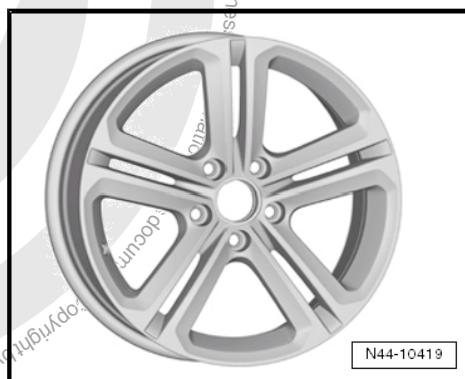
5K0 601 025 P - wheel/tire combination. Refer to ⇒ [page 143](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



N44-10419



5K0 601 025 AC - wheel/tire combination. Refer to ➤ page 143



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



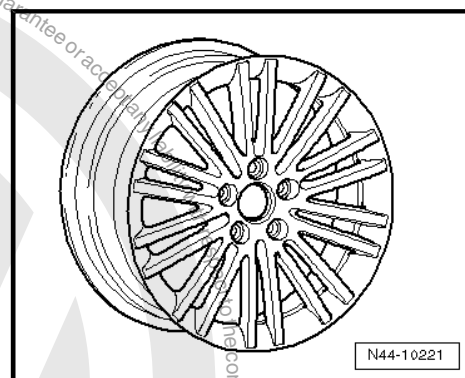
1K0 601 025 AD - Wheel/tire combination. Refer to ➤ page 143



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



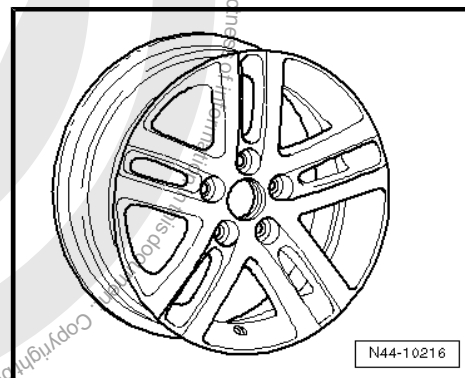
1K0 601 025 AG - Wheel/tire combination. Refer to ➤ page 143



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



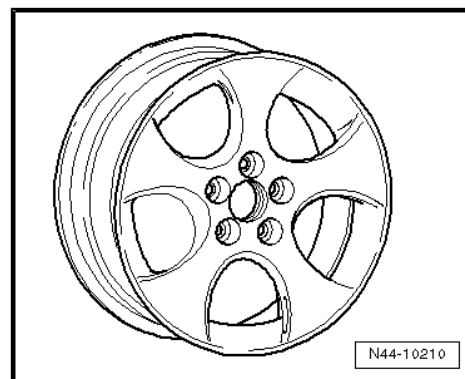
1K0 601 025 AH - Wheel/tire combination. Refer to ➤ page 143



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615





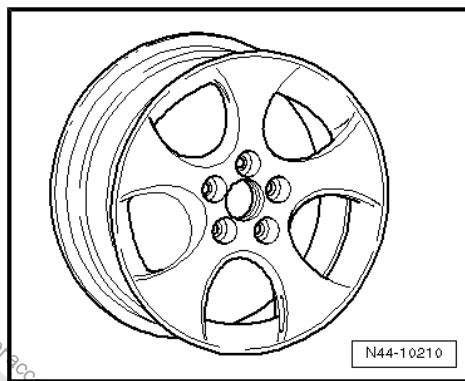
1K0 601 025 AM - Wheel/tire combination. Refer to ➤ [page 143](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615



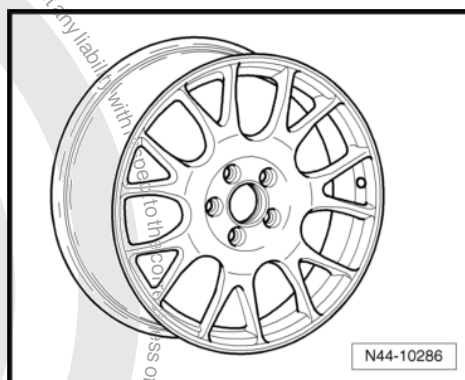
1K0 601 025 AT, 1K0 601 025 CC- Wheel/tire combination. Refer to ➤ [page 143](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615



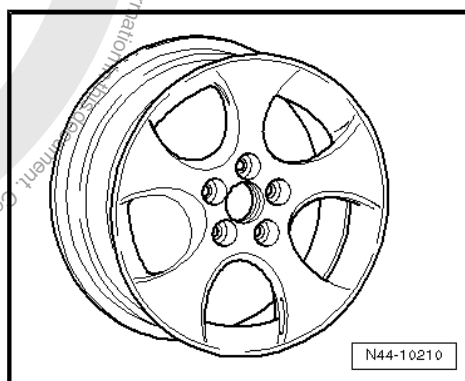
1K0 601 025 BA - Wheel/tire combination. Refer to ➤ [page 143](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615



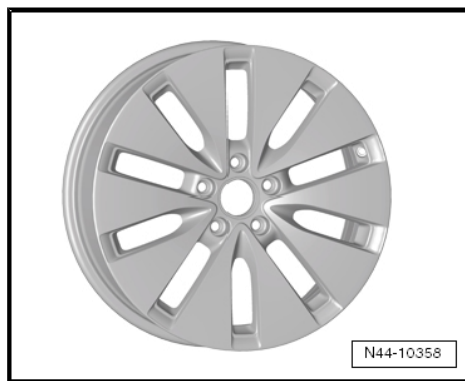
1K0 601 025 BE - wheel/tire combination. Refer to ➤ [page 143](#) .



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615





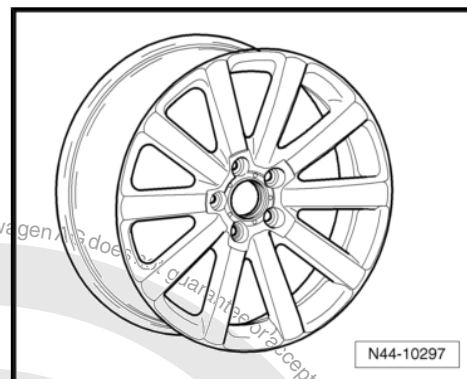
1K0 601 025 BL - Wheel/tire combination. Refer to ➔ [page 143](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 1/2 J x 18
Offset in mm:	51
Wheel load in kg:	615



3.5 Jetta, from MY 2006

➔ ["3.5.1 Jetta, Type 1KM, MY 2006", page 168](#)

➔ ["3.5.2 Jetta, Type 1KM, MY 2007 through MY 2008", page 171](#)

➔ ["3.5.3 Jetta, Type 1KM, MY 2009 through MY 2011", page 175](#)

➔ ["3.5.4 Wheel Assignment, Jetta, Type 1KM, MY 2006 through MY 2011", page 186](#)

➔ ["3.5.5 6 J x 15", page 186](#)

➔ ["3.5.6 6 1/2 J x 15", page 187](#)

➔ ["3.5.7 6 J x 16", page 188](#)

➔ ["3.5.8 6 1/2 J x 16", page 189](#)

➔ ["3.5.9 7 J x 17", page 194](#)

➔ ["3.5.10 7 1/2 J x 17", page 197](#)

➔ ["3.5.11 7 1/2 J x 18", page 199](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Vortex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.5.1 Jetta, Type 1KM, MY 2006

Supplement to parts certificate 8106803334

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide

Type Approval Number: e1*2001/116*0328*00 to
e1*2001/116*0328*04

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 75 kW; 1.6L 85 kW; Gasoline engine	Standard Tires	195/65 R 15 91H	6 J x 15 , refer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	General information about: ♦ Winter tires, refer to ⇒ <u>"2.8 Winter Tires", page 85</u> ♦ Snow chains, re- fer to ⇒ <u>"2.13 Snow Chains", page 89</u>
1.9L 77 kW TDI Diesel engine	Modification	195/65 R 15 91V	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	Volkswagen recom- mended tire brands:
		195/65 R 15 91H/V	6 1/2 J x 15 , refer to ⇒ <u>"3.5.6 6 1/2 J x 15", page 187</u>	50	Yes	♦ Summer tires, re- fer to ⇒ <u>"1.15.7 Jetta, from MY 2006", page 60</u> ♦ All-season tires, refer to ⇒ <u>"1.16.5 Jetta, from MY 2006", page 69</u> ♦ Winter tires, refer to ⇒ <u>"1.17.7 Jetta, from MY 2006", page 74</u>
		205/60 R 15 91H/V	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		205/55 R 16 91H/V/W	6 ¹ / ₂ J x 16 , refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	* Tire 225/40 R 18 92Y on rim 7 ¹ / ₂ J x 18 ET 51 is permissible only for vehicles with sport suspension and a camber value at rear axle of -1°45'! . Refer to ⇒ page 199
		225/45 R 17 91H/V/W	7 J x 17 , refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/40 R 18 92Y* ⇒ page 169	7 ¹ / ₂ J x 18 , refer to ⇒ "3.5.11 71/2 J x 18", page 199	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, re- fer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16 , refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	
2.0L 100 kW TDI; 2.0L 103 kW TDI; Diesel engines	Standard Tires	205/55 R 16 91V	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	
2.0L 110 kW; Gasoline engine	Modification	195/65 R 15 91V	6 J x 15, re- fer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		195/65 R 15 91V	6 ¹ / ₂ J x 15, refer to ⇒ "3.5.6 61/2 J x 15", page 187	50	Yes	
		205/60 R 15 91V	6 J x 15, re- fer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		205/55 R 16 91W	6 ¹ / ₂ J x 16, refer to ⇒ <u>"3.5.8 6 1/2 J x 16"</u> page 189	50	No	
		225/45 R 17 91V/W	7 J x 17, re- fer to ⇒ <u>"3.5.9 7 J x 17"</u> page 194	54	No	
		225/40 R 18 92Y* ⇒ <u>page 169</u>	7 ¹ / ₂ J x 18, refer to ⇒ <u>"3.5.11 7 1/2 J x 18"</u> page 199	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15"</u> page 186	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ <u>"3.5.7 6 J x 16"</u> page 188	50	Yes	
2.0L 147 kW; Gasoline engine	Standard Tires	205/55 R 16 91W	6 ¹ / ₂ J x 16, refer to ⇒ <u>"3.5.8 6 1/2 J x 16"</u> page 189	50	No	
	Modification	225/45 R 17 91W	7 J x 17, re- fer to ⇒ <u>"3.5.9 7 J x 17"</u> page 194	54	No	
		225/40 R 18 92Y* ⇒ <u>page 169</u>	7 ¹ / ₂ J x 18, refer to ⇒ <u>"3.5.11 7 1/2 J x 18"</u> page 199	51	No	
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ <u>"3.5.7 6 J x 16"</u> page 188	50	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .



3.5.2 Jetta, Type 1KM, MY 2007 through MY 2008

Supplement to parts certificate 8106803334

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number: e1*2001/116*0328*05 through e1*2001/116*0328*11

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 75 kW; Gasoline engine 1.9L 77 kW TDI Diesel engine with automatic transmission	Standard Tires	195/65 R 15 91T	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89
	Modification	195/65 R 15 91H/V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	Volkswagen recom- mended tire brands:
		195/65 R 15 91T/H/V	6 ¹ / ₂ J x 15, refer to ⇒ "3.5.6 6¹/₂ J x 15", page 187	50	Yes	♦ Summer tires, re- fer to ⇒ "1.15.7 Jetta, from MY 2006", page 60 ♦ All-season tires, refer to ⇒ "1.16.5 Jetta, from MY 2006", page 69 ♦ Winter tires, refer to ⇒ "1.17.7 Jetta, from MY 2006", page 74
		205/60 R 15 91T/H/V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91T/H/V	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 6¹/₂ J x 16", page 189	50	No	
		225/45 R 17 91T/H/V	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		225/40 R 18 92Y* ⇒ page 172	7 ¹ / ₂ J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	* Tire 225/40 R 18 92Y on rim 7 ¹ / ₂ J x 18 ET 51 is permissible only for vehicles with sport suspension and a camber value at rear axle of -1°45'!
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	
1.6L 85 kW; 1.4L 90 kW Gasoline engine	Standard Tires	195/65 R 15 91H	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89
1.9L 77 kW TDI Diesel engine with manual transmission	Modification	195/65 R 15 91V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	Volkswagen recom- mended tire brands: ♦ Summer tires, re- fer to ⇒ "1.15.7 Jetta, from MY 2006", page 60 ♦ All-season tires, refer to ⇒ "1.16.5 Jetta, from MY 2006", page 69 ♦ Winter tires, refer to ⇒ "1.17.7 Jetta, from MY 2006", page 74
2.0L 100 kW TDI; 2.0L 103 kW TDI; Diesel engines		195/65 R 15 91H/V	6 ¹ / ₂ J x 15, refer to ⇒ "3.5.6 61/2 J x 15", page 187	50	Yes	
		205/60 R 15 91H/V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		205/55 R 16 91H/V/W	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	* Tire 225/40 R 18 92Y on rim 7 ¹ / ₂ J x 18 ET 51 is permissible only for vehicles with sport suspension and a camber value at rear axle of -1°45'!
		225/45 R 17 91H/V/W	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/40 R 18 92Y* ⇒ page 173	7 ¹ / ₂ J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	
1.4L 103 kW; 2.0L 110 kW; Gasoline engine	Standard Tires	205/55 R 16 91V	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	
	Modification	195/65 R 15 91V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		195/65 R 15 91V	6 ¹ / ₂ J x 15, refer to ⇒ "3.5.6 61/2 J x 15", page 187	50	Yes	
		205/60 R 15 91V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91V/W	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		225/45 R 17 91V/W	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/40 R 18 92Y* ⇒ page 173	7 1/2 J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	
1.4L 125 kW; Gasoline engine	Standard Tires	205/55 R 16 91V	6 1/2 J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	
2.0L 125 kW TDI Diesel engine	Modification	225/45 R 17 91V/W	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/40 R 18 92Y* ⇒ page 173	7 1/2 J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	
2.0L 147 kW; Gasoline engine	Standard Tires	205/55 R 16 91W	6 1/2 J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	
	Modification	225/45 R 17 91W	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		225/40 R 18 92Y* ⇒ page 173	7 1/2 J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.5.3 Jetta, Type 1KM, MY 2009 through MY 2011

Caution

*Follow the specifications for wheel/tire combinations from type approval number: e1*2001/116*0328*17. Refer to ⇒ [page 181](#) .*

Supplement to parts certificate 8106803334.

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number: e1*2001/116*0328*12 through e1*2001/116*0328*16

Overview

Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 75 kW; Gasoline engine	Standard Tires	195/65 R 15 91T 	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, refer to ⇒ "2.13 Snow Chains", page 89
1.6L 77 kW TDI; 1.9L 77 kW TDI Diesel engine	Modification	195/65 R 15 91H/V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	Volkswagen recommended tire brands:



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		195/65 R 15 91T/H/V	6 ¹ / ₂ J x 15, refer to ⇒ "3.5.6 61/2 J x 15", page 187	50	Yes	<ul style="list-style-type: none"> ♦ Summer tires, re- fer to ⇒ "1.15.7 Jetta, from MY 2006", page 60 ♦ All-season tires, refer to ⇒ "1.16.5 Jetta, from MY 2006", page 69 ♦ Winter tires, refer to ⇒ "1.17.7 Jetta, from MY 2006", page 74
		205/60 R 15 91T/H/V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	<ul style="list-style-type: none"> * 225/45 R 17 91T/H/ V/W tires with a 7¹/₂ J x 17 ET 51 rim may only be used on a ve- hicle with a sport chassis! * a 225/40 R 18 92Y tire with a 7¹/₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
		205/55 R 16 91T/H/V	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	
		225/45 R 17 91T/H/V	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/45 R 17 91T/H/V/ W* ⇒ page 176	7 ¹ / ₂ J x 17 , refer to ⇒ "3.5.10 71/ 2 J x 17", page 197	51	No	
		225/40 R 18 92Y** ⇒ page 176	7 ¹ / ₂ J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 85 kW; 1.4L 90 kW Gasoline engine	Standard Tires	195/65 R 15 91H	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
	Modification	195/65 R 15 91V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		195/65 R 15 91H/V	6 ¹ / ₂ J x 15 refer to ⇒ "3.5.6 61/2 J x 15", page 187	50	Yes	
		205/60 R 15 91H/V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91H/V/W	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	
		225/45 R 17 91H/V/W	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/45 R 17 91H/V/W * ⇒ page 177	7 ¹ / ₂ J x 17, refer to ⇒ "3.5.10 71/ 2 J x 17", page 197	51	No	* 225/45 R 17 91H/V/ W tire with a 7 ¹ / ₂ J x 17 ET 51 rim may on- ly be used on a vehi- cle with a sport chas- sis!
		225/40 R 18 92Y** ⇒ page 177	7 ¹ / ₂ J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
2.0L 100 kW TDI; 2.0L 103 kW TDI; Diesel engines	Standard Tires	195/65 R 15 91H	6 J x 15, refer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
	Modification	195/65 R 15 91V	6 J x 15, refer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
		195/65 R 15 91H/V	6 1/2 J x 15, refer to ⇒ <u>"3.5.6 6 1/2 J x 15", page 187</u>	50	Yes	
		205/60 R 15 91H/V	6 J x 15, refer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
		205/55 R 16 91H/V/W	6 1/2 J x 16, refer to ⇒ <u>"3.5.8 6 1/2 J x 16", page 189</u>	50	No	
		225/45 R 17 91H/V/W	7 J x 17, refer to ⇒ <u>"3.5.9 7 J x 17", page 194</u>	54	No	
		225/40 R 18 92Y** ⇒ <u>page 178</u>	7 1/2 J x 18, refer to ⇒ <u>"3.5.11 7 1/2 J x 18", page 199</u>	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ <u>"3.5.7 6 J x 16", page 188</u>	50	Yes	
1.4L 103 kW; 2.0L 110 kW; Gasoline engine	Standard Tires	205/55 R 16 91V	6 1/2 J x 16, refer to ⇒ <u>"3.5.8 6 1/2 J x 16", page 189</u>	50	No	

* a 225/40 R 18 92Y tire with a 7 1/2 J x 18 ET 51 rim is permissible only for vehicles with sport suspension and a camber value at rear axle of -1°45'!



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Modification	195/65 R 15 91V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		195/65 R 15 91V	6 ¹ / ₂ J x 15, refer to ⇒ "3.5.6 61/2 J x 15", page 187	50	Yes	
		205/60 R 15 91V	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91W	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	
		225/45 R 17 91V/W	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/45 R 17 91V/W * ⇒ page 179	7 ¹ / ₂ J x 17, refer to ⇒ "3.5.10 71/ 2 J x 17", page 197	51	No	
		225/40 R 18 92Y** ⇒ page 179	7 ¹ / ₂ J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	
1.4L 125 kW Gasoline engine	Standard Tires	205/55 R 16 91V	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Modification	225/45 R 17 91V/W	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	* a 225/45 R 17 91V/ W tire on a 7 ¹ / ₂ J x 17 ET 51 rim may on- ly be used on a vehi- cle with a sport chas- sis!
		225/45 R 17 91V/W * ⇒ page 180	7 ¹ / ₂ J x 17, refer to ⇒ "3.5.10 71/ 2 J x 17", page 197	51	No	
		225/40 R 18 92Y** ⇒ page 180	7 ¹ / ₂ J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
1.4L 118 kW Gasoline engine	Standard Tires	205/55 R 16 91V	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
2.0L 125 kW TDI Diesel engine	Modification	225/45 R 17 91V/W	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/40 R 18 92Y** ⇒ page 180	7 ¹ / ₂ J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	
2.0L 147 kW; Gasoline engine	Standard Tires	205/55 R 16 91W	6 ¹ / ₂ J x 16, refer to ⇒ "3.5.8 61/2 J x 16", page 189	50	No	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Modification	225/45 R 17 91W	7 J x 17, refer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/45 R 17 91W* ⇒ page 181	7 ¹ / ₂ J x 17, refer to ⇒ "3.5.10 71/ 2 J x 17", page 197	51	No	* a 225/45 R 17 91W tire on a 7 ¹ / ₂ J x 17 ET 51 rim may only be used on a vehicle with a sport chassis!
		225/40 R 18 92Y** ⇒ page 181	7 ¹ / ₂ J x 18, refer to ⇒ "3.5.11 71/ 2 J x 18", page 199	51	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

Supplement to parts certificate 8106803334

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide

Type Approval Number: e1*2001/116*0328*17 through
e1*2001/116*0328*18

Overview

Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 75 kW; Gasoline engine	Standard Tires	195/65 R 15 91T	6 J x 15, re- fer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89
1.6L 66 kW TDI; 1.6L 77 kW TDI; 1.9L 77 kW TDI Diesel engine	Modification	195/65 R 15 91H/V	6 J x 15, re- fer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	Volkswagen recom- mended tire brands:



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		195/65 R 15 91T/H/V	6 1/2 J x 15, refer to ⇒ "3.5.6 6 1/2 J x 15", page 187	50	Yes	<ul style="list-style-type: none"> ◆ Summer tires, re- fer to ⇒ "1.15.7 Jetta, from MY 2006", page 60 ◆ All-season tires, refer to ⇒ "1.16.5 Jetta, from MY 2006", page 69 ◆ Winter tires, refer to ⇒ "1.17.7 Jetta, from MY 2006", page 74
		205/60 R 15 91T/H/V	6 J x 15, re- fer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91T/H/V	6 1/2 J x 16, refer to ⇒ "3.5.8 6 1/2 J x 16", page 189	50	No	
		225/45 R 17 91T/H/V	7 J x 17, re- fer to ⇒ "3.5.9 7 J x 17", page 194	54	No	
		225/45 R 17 91T/H/V/ W * ⇒ page 182	7 1/2 J x 17, refer to ⇒ "3.5.10 7 1/2 J x 17", page 197	51	No	* 225/45 R 17 91T/H/ V/W tires with a 7 1/2 J x 17 ET 51 rim may only be used on a ve- hicle with a sport chassis!
		225/40 R 18 92Y** ⇒ page 182	7 1/2 J x 18, refer to ⇒ "3.5.11 7 1/2 J x 18", page 199	51	No	* a 225/40 R 18 92Y tire with a 7 1/2 J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, re- fer to ⇒ "3.5.5 6 J x 15", page 186	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ "3.5.7 6 J x 16", page 188	50	Yes	




Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.4L 90 kW Gasoline engine	Standard Tires	195/65 R 15 91H	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
	Modification	195/65 R 15 91V	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
		195/65 R 15 91H/V	6 ¹ / ₂ J x 15, re- fer to ⇒ <u>"3.5.6 6¹/₂ J x 15", page 187</u>	50	Yes	
		205/60 R 15 91H/V	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
		205/55 R 16 91H/V/W	6 ¹ / ₂ J x 16, re- fer to ⇒ <u>"3.5.8 6¹/₂ J x 16", page 189</u>	50	No	
		225/45 R 17 91H/V/W	7 J x 17, re- fer to ⇒ <u>"3.5.9 7 J x 17", page 194</u>	54	No	
		225/45 R 17 91H/V/W * ⇒ <u>page 183</u>	7 ¹ / ₂ J x 17, re- fer to ⇒ <u>"3.5.10 7¹/₂ J x 17", page 197</u>	51	No	* 225/45 R 17 91H/V/ W tire with a 7 ¹ / ₂ J x 17 ET 51 rim may on- ly be used on a vehi- cle with a sport chas- sis!
		225/40 R 18 92Y** ⇒ <u>page 183</u>	7 ¹ / ₂ J x 18, re- fer to ⇒ <u>"3.5.11 7¹/₂ J x 18", page 199</u>	51	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ <u>"3.5.7 6 J x 16", page 188</u>	50	Yes	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
2.0L 100 kW TDI; 2.0L 103 kW TDI; Diesel engines	Standard Tires	195/65 R 15 91H	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
	Modification	195/65 R 15 91V	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
		195/65 R 15 91H/V	6 ¹ / ₂ J x 15, refer to ⇒ <u>"3.5.6 6¹/₂ J x 15", page 187</u>	50	Yes	
		205/60 R 15 91H/V	6 J x 15, re- fer to ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
		205/55 R 16 91H/V/W	6 ¹ / ₂ J x 16, refer to ⇒ <u>"3.5.8 6¹/₂ J x 16", page 189</u>	50	No	
		225/45 R 17 91H/V/W	7 J x 17, re- fer to ⇒ <u>"3.5.9 7 J x 17", page 194</u>	54	No	
		225/40 R 18 92Y** ⇒ <u>page 184</u>	7 ¹ / ₂ J x 18, refer to ⇒ <u>"3.5.11 7¹/₂ J x 18", page 199</u>	51	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15 ⇒ <u>"3.5.5 6 J x 15", page 186</u>	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ <u>"3.5.7 6 J x 16", page 188</u>	50	Yes	
	Standard Tires	205/55 R 16 91V	6 ¹ / ₂ J x 16, refer to ⇒ <u>"3.5.8 6¹/₂ J x 16", page 189</u>	50	No	
1.4L 118 kW Gasoline engine						

* a 225/40 R 18 92Y
tire with a 7¹/₂ J x 18
ET 51 rim is permis-
sible only for vehi-
cles with sport sus-
pension and a cam-
ber value at rear axle
of -1°45'!



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
2.0L 125 kW TDI Diesel engine	Modification	225/45 R 17 91V/W	7 J x 17, re- fer to ⇒ <u>"3.5.9 7 J x 17"</u> , page 194	54	No	* a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
		225/40 R 18 92Y** ⇒ <u>page 185</u>	7 ¹ / ₂ J x 18, refer to ⇒ <u>"3.5.11 71/2 J x 18"</u> , page 199	51	No	
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ <u>"3.5.7 6 J x 16"</u> , page 188	50	Yes	
2.0L 147 kW; Gasoline engine	Standard Tires	205/55 R 16 91V 	6 ¹ / ₂ J x 16, refer to ⇒ <u>"3.5.8 61/2 J x 16"</u> , page 189	50	No	* a 225/45 R 17 91W tire on a 7 ¹ / ₂ J x 17 ET 51 rim may only be used on a vehicle with a sport chassis! * a 225/40 R 18 92Y tire with a 7 ¹ / ₂ J x 18 ET 51 rim is permis- sible only for vehi- cles with sport sus- pension and a cam- ber value at rear axle of -1°45'!
	Modification	225/45 R 17 91V/W	7 J x 17, re- fer to ⇒ <u>"3.5.9 7 J x 17"</u> , page 194	54	No	
		225/45 R 17 91V/W * ⇒ <u>page 185</u>	7 ¹ / ₂ J x 17, refer to ⇒ <u>"3.5.10 71/2 J x 17"</u> , page 197	51	No	
		225/40 R 18 92Y** ⇒ <u>page 185</u>	7 ¹ / ₂ J x 18, refer to ⇒ <u>"3.5.11 71/2 J x 18"</u> , page 199	51	No	
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ <u>"3.5.7 6 J x 16"</u> , page 188	50	Yes	

Tire pressures can be found on the inside of the fuel tank flap or
in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear
Pattern, Tire Pressure and Tread Depth .



3.5.4 Wheel Assignment, Jetta, Type 1KM, MY 2006 through MY 2011

Explanatory notes of indications on disc wheels, refer to
⇒ ["1.11.2 Disc Wheels, Identification", page 45](#).

Wheel bolt tightening specifications, refer to ⇒ Suspension,
Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5

3.5.5 6 J x 15

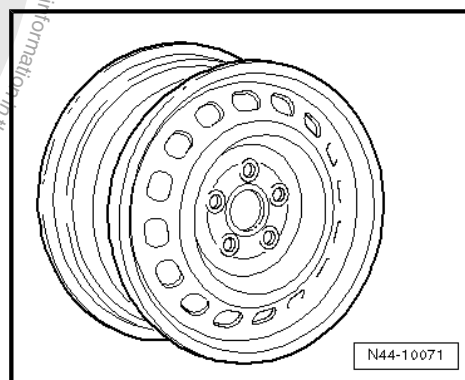


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 168](#) .

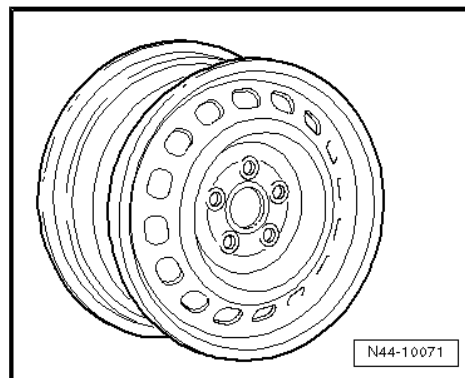
1K0 601 027 C, 1K0 601 027 H - wheel/tire combination. Refer to
⇒ [page 168](#)

Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	615



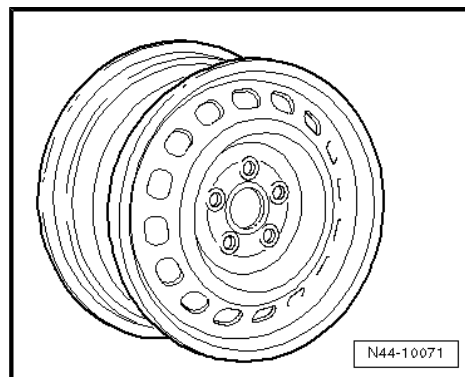
1K0 601,027 T - Wheel/tire combination. Refer to ⇒ [page 168](#)

Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	615



2K0 601 027 - Wheel/tire combination. Refer to ⇒ [page 168](#)

Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	650





3.5.6 6¹/₂ J x 15

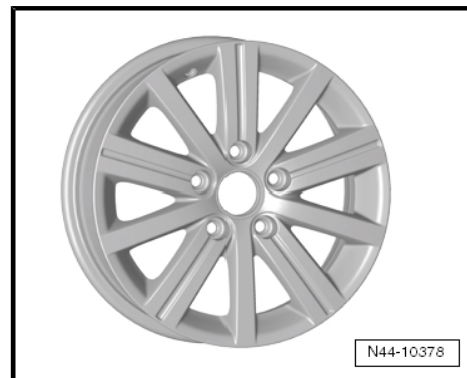


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 168](#) .

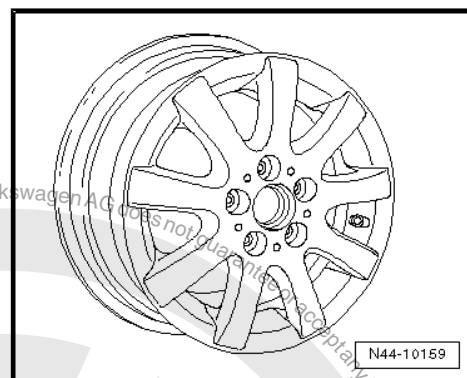
5k0 601 025 J - Wheel/tire combination. Refer to ➔ [page 168](#)

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



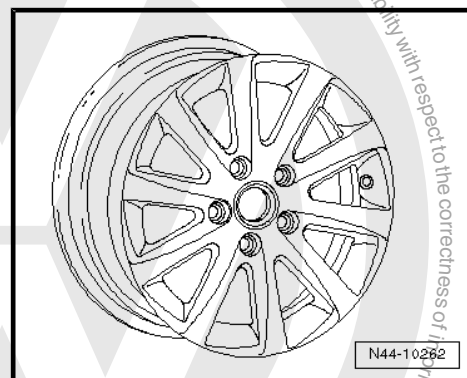
1K0 601,025 A - Wheel/tire combination. Refer to ➔ [page 168](#)

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



1K0 601 025 AK - Wheel/tire combination. Refer to ➔ [page 168](#)

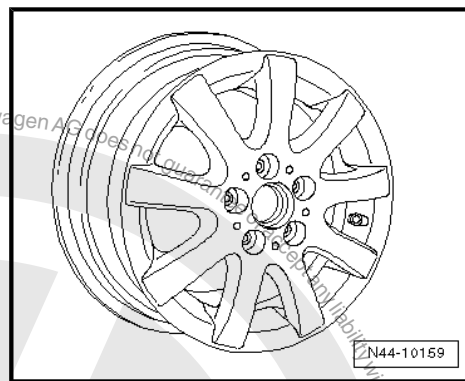
Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600





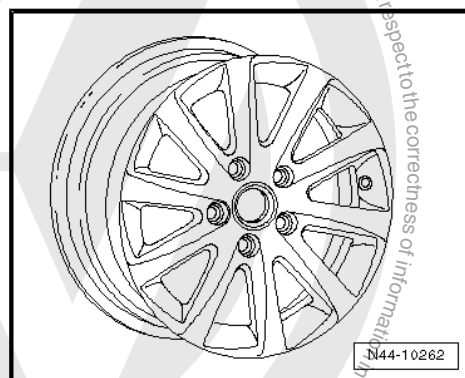
1K0 601 025 AQ - Wheel/tire combination. Refer to ➔ page 168

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



1K0 601 025 CA - Wheel/tire combination. Refer to ➔ page 168

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



3.5.7 6 J x 16



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 168.

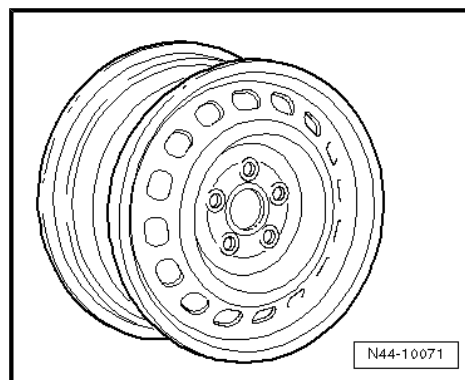
Winter Wheels

8P0 601 027 - Wheel/tire combination. Refer to ➔ page 169

Dimension:	6 J x 16
Offset in mm:	50
Wheel load in kg:	600

Use the following wheel bolt caps for the wheel bolts:

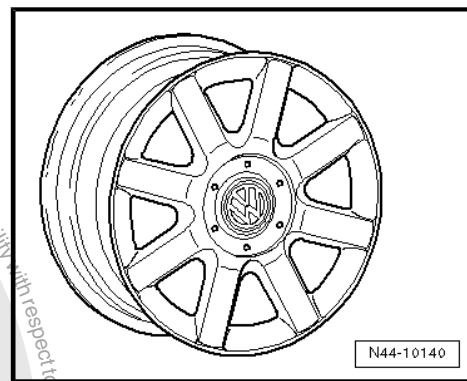
- ◆ 1K0.601.173 (4x per wheel)
- ◆ 1K0.601.173.A (1x per wheel)





1K0 601 025 Q - Wheel/tire combination. Refer to ➤ page 169

Dimension:	6 J x 16 EH2, refer to ➤ "1.11.2 Disc Wheels, Identification", page 45
Offset in mm:	50
Wheel load in kg:	615



3.5.8 6¹/₂ J x 16

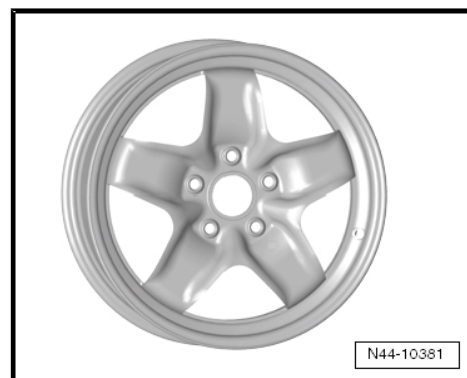


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 168.

5K0 601 027 - Wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



5K0 601 025 E - Wheel/tire combination. Refer to ➤ page 169

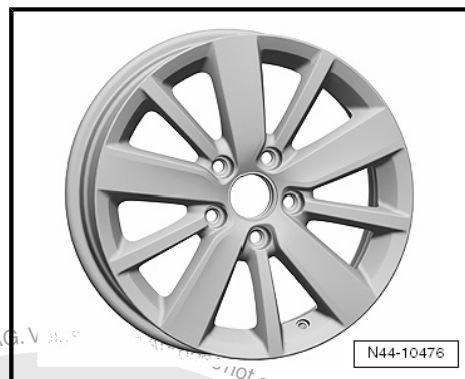
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





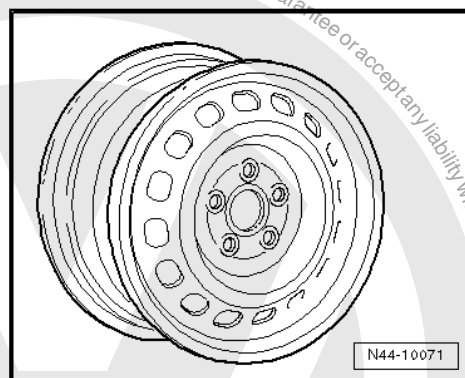
5K0 601 025 S - wheel/tire combination. Refer to ➤ [page 169](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



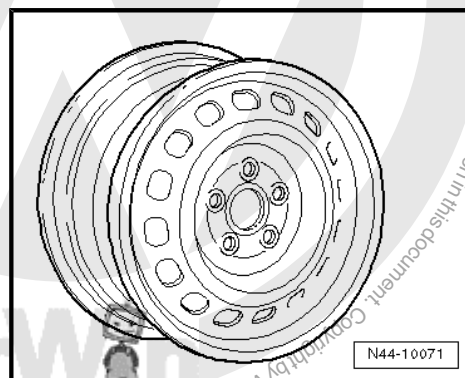
1K0 601 027 A, 1K0 601 027 AK - wheel/tire combination. Refer to ➤ [page 169](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



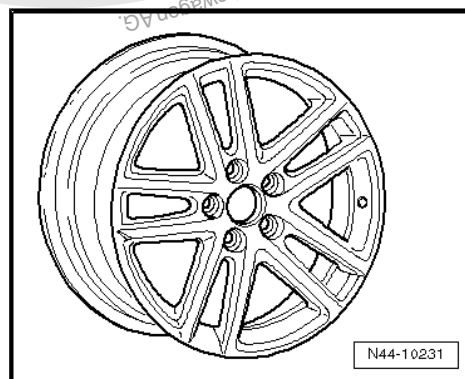
1K0 601 027 J, 1K0 601 027 K - wheel/tire combination. Refer to ➤ [page 169](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 AJ - Wheel/tire combination. Refer to ➤ [page 169](#)

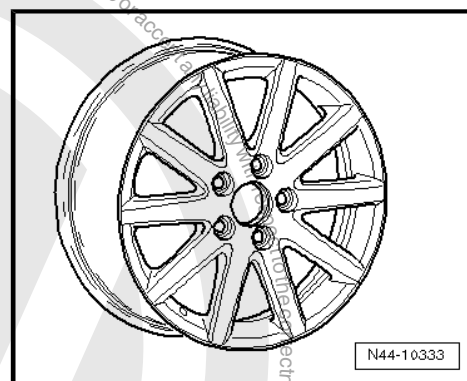
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





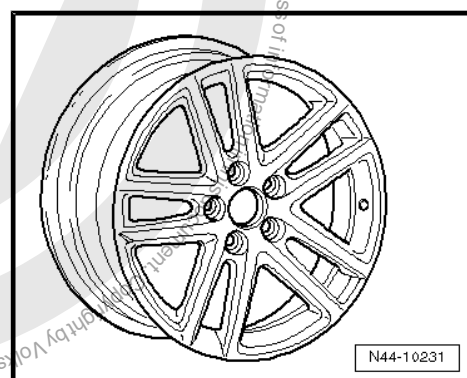
1K0 601 025 BC - wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BM - wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BR - wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BS, 1K0 601 025 CH- wheel/tire combination. Refer to ➤ page 169

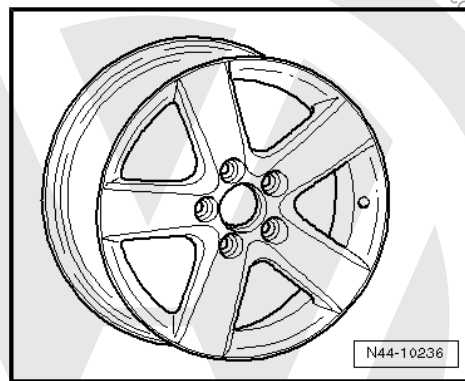
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





1K0 601 025 CB - Wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



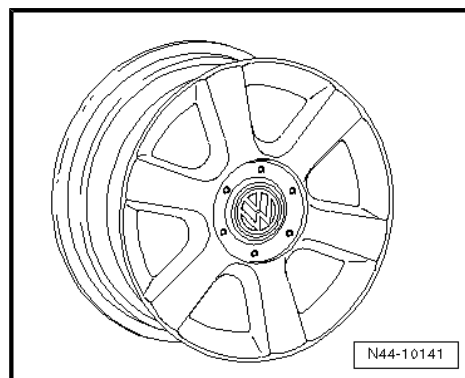
1K0 601 025 CG - wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



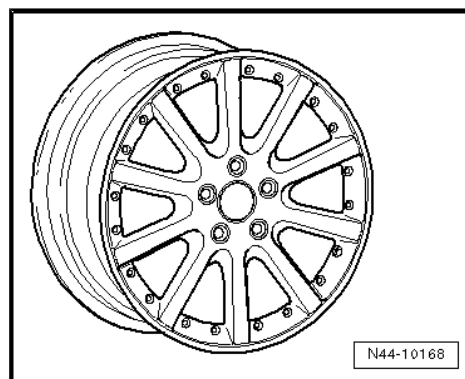
1T0 601 025 C - Wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 F - Wheel/tire combination. Refer to ➤ page 168

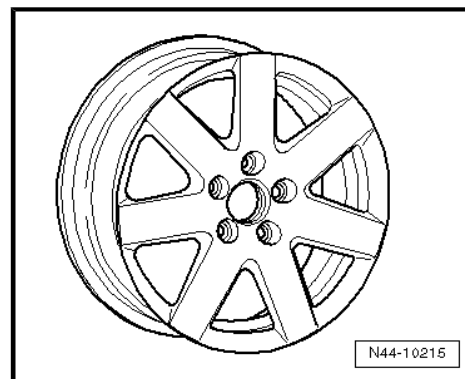
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





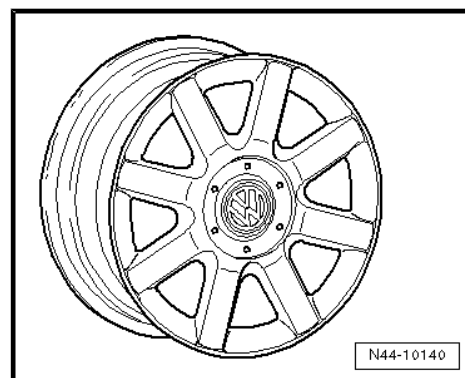
1K0 601 025 P - Wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



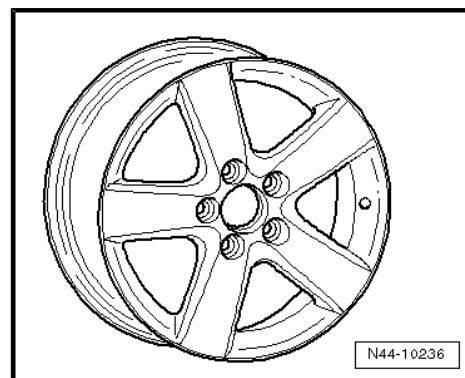
1K0 601 025 R - Wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



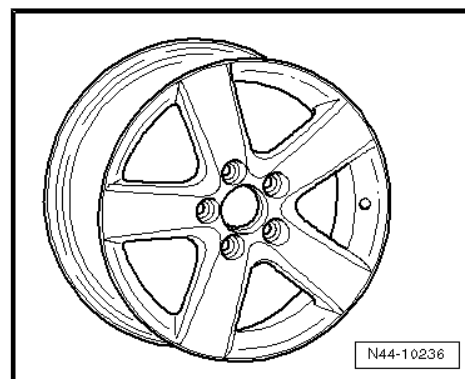
1T0 601 025 G; 1T0 601 025 K- Wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 M - Wheel/tire combination. Refer to ➤ page 169

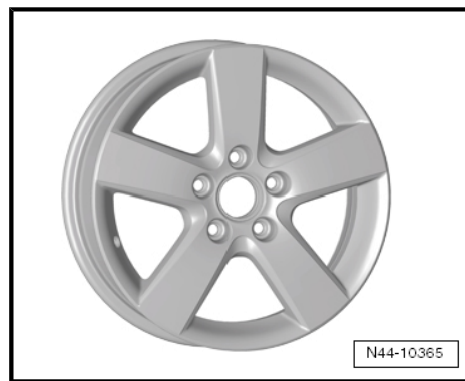
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





1T0 601 025 R - wheel/tire combination. Refer to ➤ page 169

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



3.5.9 7 J x 17

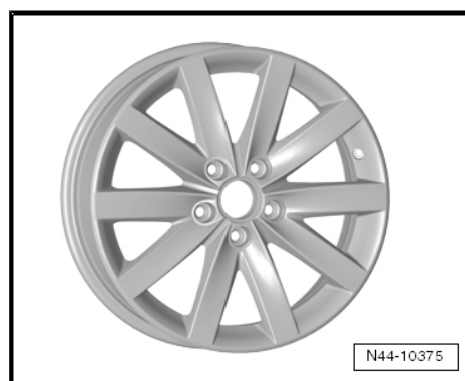


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 168 .

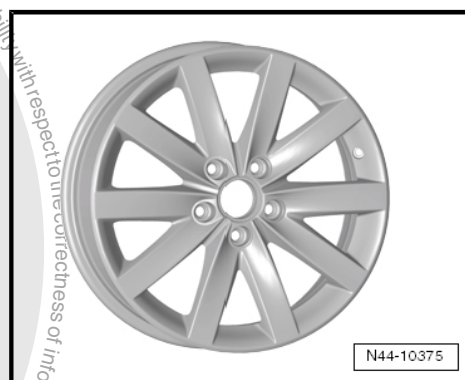
5K0 601 025 D - Wheel/tire combination. Refer to ➤ page 169

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 F - Wheel/tire combination. Refer to ➤ page 169

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 K - Wheel/tire combination. Refer to ➤ page 169

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





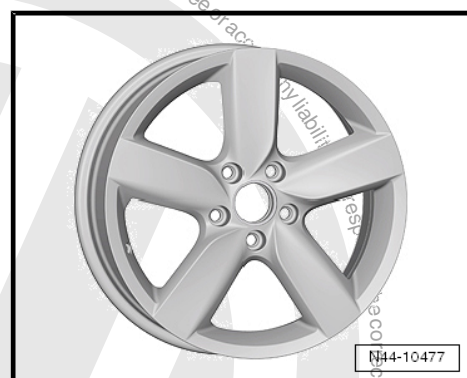
5K0 601 025 Q, 5K0 601 025 R - wheel/tire combination. Refer to ➤ [page 169](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



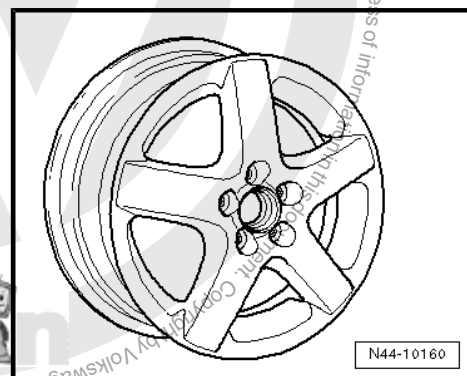
5K0 601 025 AA - wheel/tire combination. Refer to ➤ [page 169](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



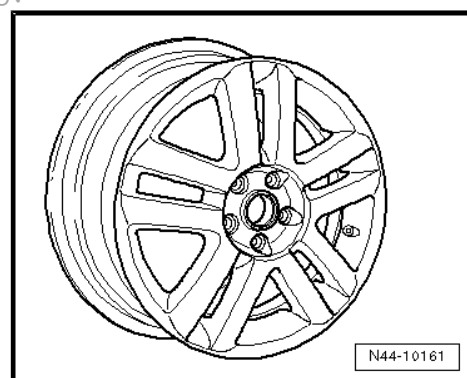
1K0 601,025 B - Wheel/tire combination. Refer to ➤ [page 169](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



1K0 601,025 C - Wheel/tire combination. Refer to ➤ [page 169](#)

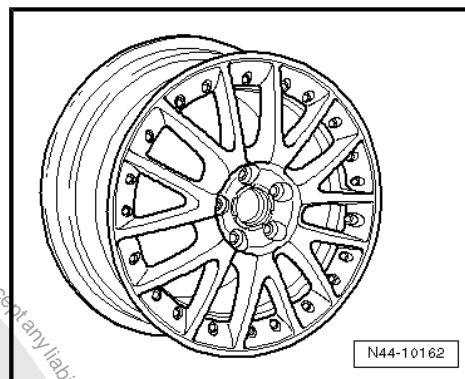
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





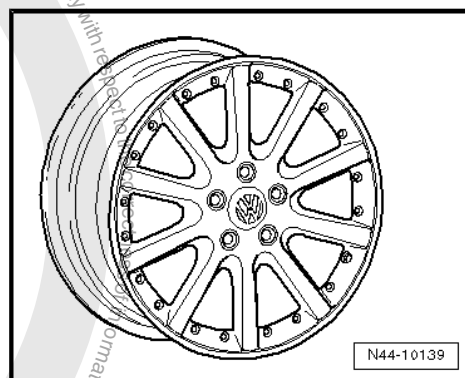
1K0 601,025 J - Wheel/tire combination. Refer to ➤ page 169

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



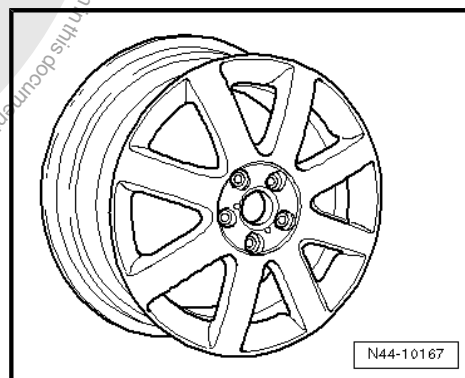
1K0 601,025 K - Wheel/tire combination. Refer to ➤ page 169

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



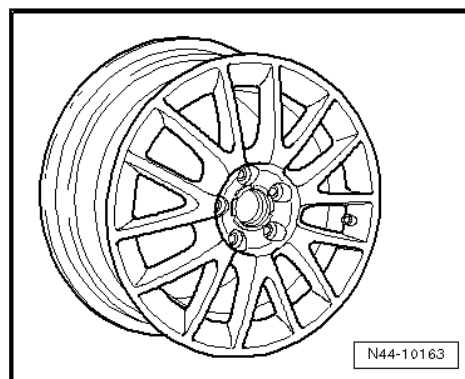
1K0 601,025 M - Wheel/tire combination. Refer to ➤ page 169

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



1K0 601 025 T - Wheel/tire combination. Refer to ➤ page 169

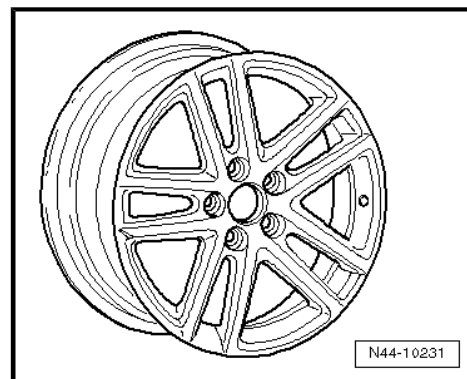
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





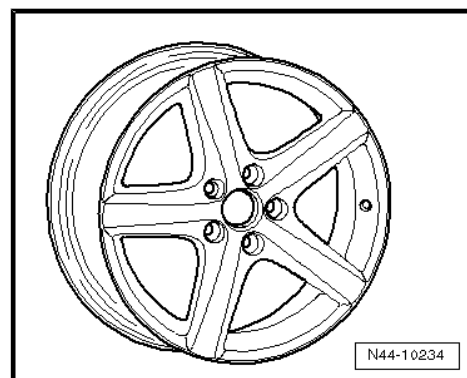
1K0 601 025 AF - Wheel/tire combination. Refer to ➤ page 169

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630



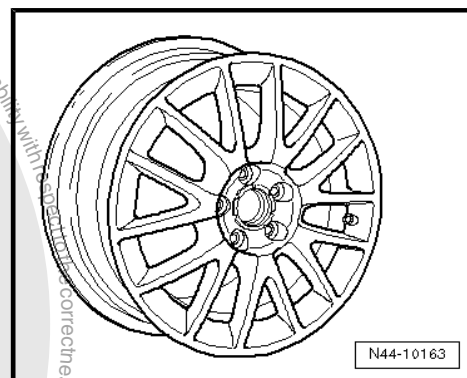
1K0 601 025 AE - Wheel/tire combination. Refer to ➤ page 169

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630



1K0 601 025 AN - Wheel/tire combination. Refer to ➤ page 169

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



3.5.10 7 1/2 J x 17



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 168.





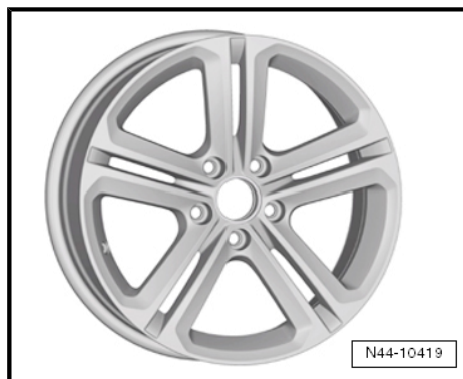
5K0 601,025 N - Wheel/tire combination. Refer to ➤ [page 176](#)



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	630



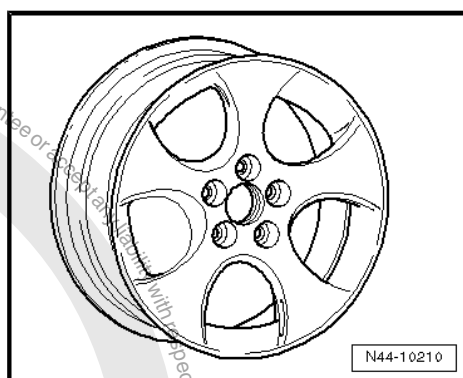
1K0 601 025 AC - Wheel/tire combination. Refer to ➤ [page 176](#)



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



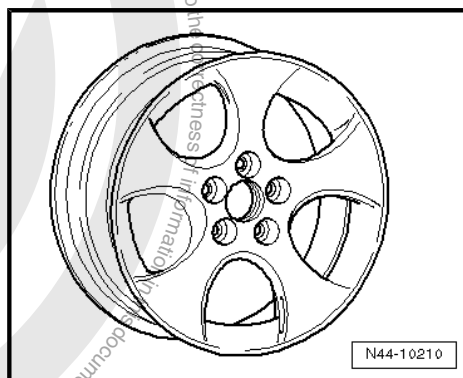
1K0 601 025 BB - Wheel/tire combination. Refer to ➤ [page 176](#)



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615



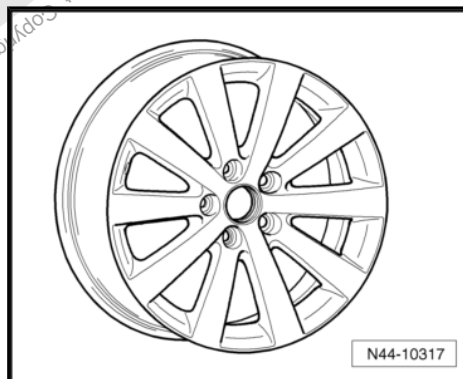
1K0 601 025 BK - Wheel/tire combination. Refer to ➤ [page 176](#)



Note

Only for vehicles with sport chassis.

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	51
Wheel load in kg:	615





3.5.11 7¹/₂ J x 18



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 168](#) .



Caution

It is possible to mount 7¹/₂ J x 18-wheels only under the following conditions:

- *Additional wheel housing enlargements (FLAPS) must be installed on the rear axle, with the exception of Germany - there, the discontinuation of the panels with TÜV certificate no. 3417/05 is possible. Refer to ➔ ["1.2.3 Additional Wheel Housing Enlargement, FLAPS", page 4](#)*

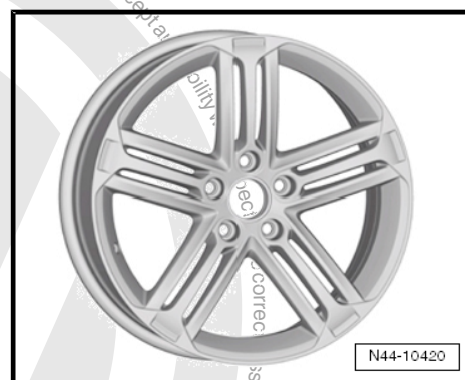
5K0 601 025 H- wheel/tire combination. Refer to ➔ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630



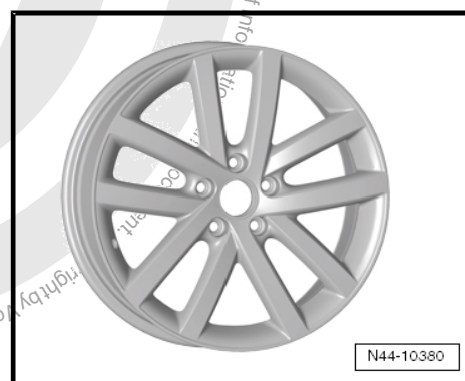
5K0 601 025 L - Wheel/tire combination. Refer to ➔ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



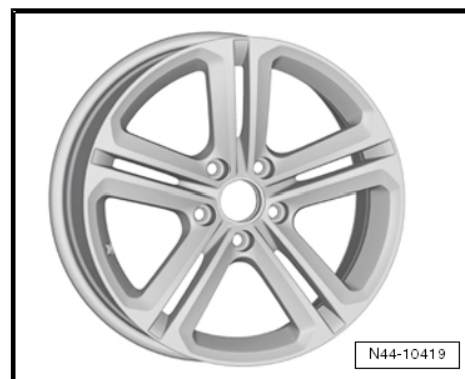
5K0 601 025 P - wheel/tire combination. Refer to ➔ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	630





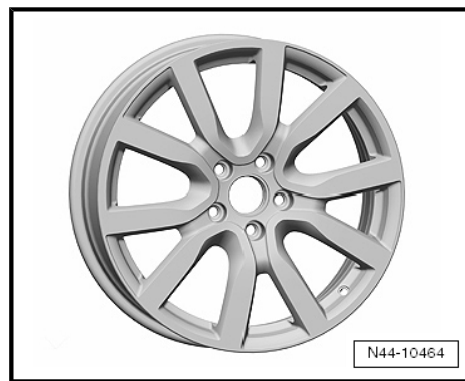
5K0 601 025 AC - wheel/tire combination. Refer to ➤ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	630



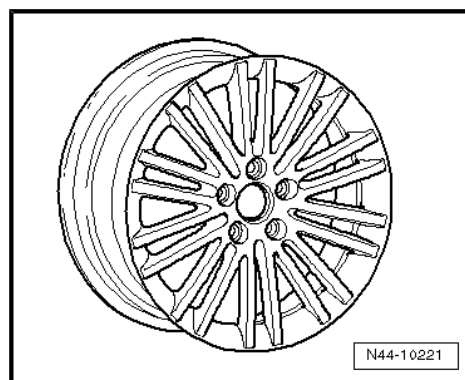
1K0 601 025 AD - Wheel/tire combination. Refer to ➤ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	630



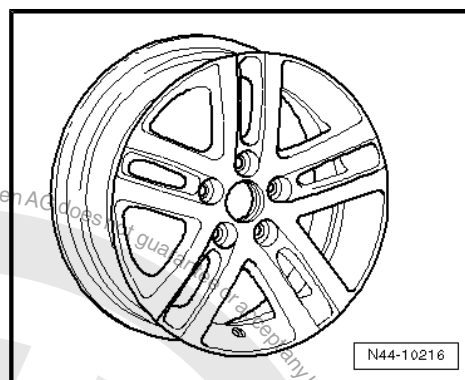
1K0 601 025 AG - Wheel/tire combination. Refer to ➤ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	630



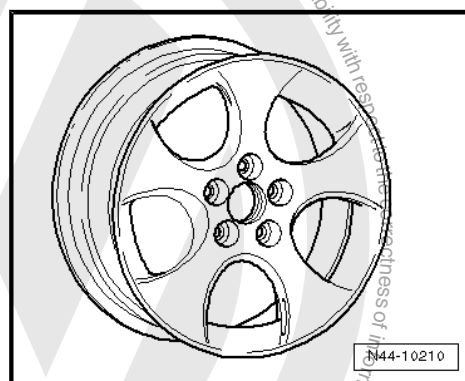
1K0 601 025 AH - Wheel/tire combination. Refer to ➤ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615





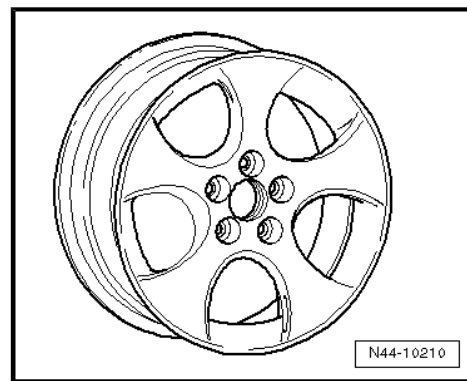
1K0 601 025 AM - Wheel/tire combination. Refer to ➤ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



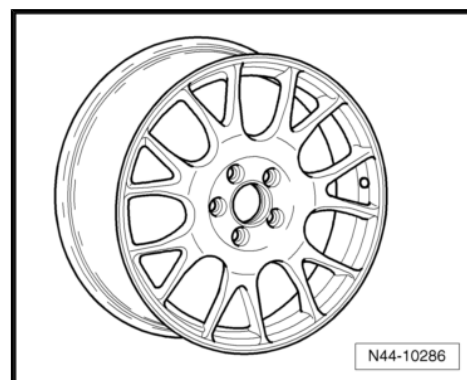
1K0 601 025 AT, 1K0 601 025 CC- Wheel/tire combination. Refer to ➤ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



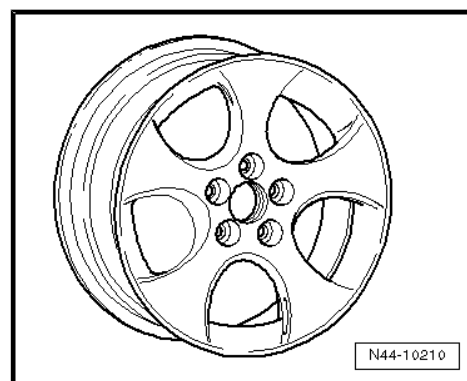
1K0 601 025 BA - Wheel/tire combination. Refer to ➤ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615



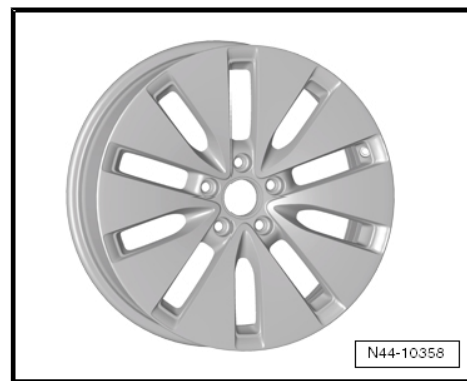
1K0 601 025 BE - wheel/tire combination. Refer to ➤ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle -1°45'.

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	51
Wheel load in kg:	615





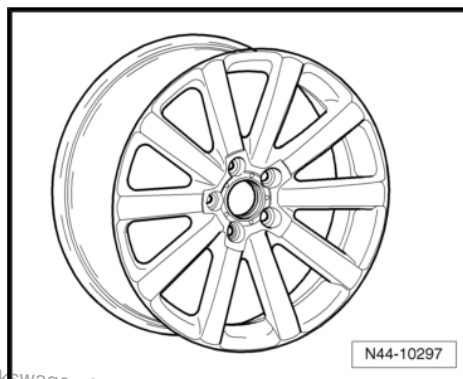
1K0 601 025 BL - Wheel/tire combination. Refer to ➔ [page 169](#)



Note

Only for vehicles with sport suspension and camber value at rear axle $-1^{\circ}45'$.

Dimension:	7 $\frac{1}{2}$ J x 18
Offset in mm:	51
Wheel load in kg:	615



3.6 Jetta, from MY 11

➔ ["3.6.1 Jetta, Sales Type 162, MY 11", page 203](#)

➔ ["3.6.2 Wheel Allocation, Jetta, Sales Type 162, MY 11", page 205](#)

➔ ["3.6.3 6 J x 15", page 205](#)

➔ ["3.6.4 61/2 J x 15", page 206](#)

➔ ["3.6.5 6 J x 16", page 207](#)

➔ ["3.6.6 61/2 J x 16", page 208](#)

➔ ["3.6.7 7 J x 17", page 213](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Vortex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.6.1 Jetta, Sales Type 162, MY 11

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.2L 77 kW Gasoline engine	Standard Tires	195/65 R 15 91T	6 J x 15 , refer to ⇒ "3.6.3 6 J x 15", page 205	47	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89
1.6L 77 kW TDI; Diesel engine	Modification	195/65 R 15 91H/V	6 J x 15, re- fer to ⇒ "3.6.3 6 J x 15", page 205	47	Yes	Volkswagen recom- mended tire brands: ♦ All-season tires, refer to ⇒ "1.16.6 Jetta, MY 11", page 69
		195/65 R 15 91T/H/V	6 1/2 J x 15 , refer to ⇒ "3.6.4 6 1/2 J x 15", page 206	50	Yes	
		205/55 R 16 91T/H/V/ W	6 1/2 J x 16 , refer to ⇒ "3.6.6 6 1/2 J x 16", page 208	50	No	
		225/45 R 17 91T/H/V/ W	7 J x 17 , refer to ⇒ "3.6.7 7 J x 17", page 213	54	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, re- fer to ⇒ "3.6.3 6 J x 15", page 205	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16 , refer to ⇒ "3.6.5 6 J x 16", page 207	50	Yes	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.4L 90 kW; 2.0L 85 kW; Gasoline engine 2.0L 81 kW TDI 2.0L 103 kW TDI Diesel engine	Standard Tires	195/65 R 15 91H	6 J x 15, refer to ⇒ <u>"3.6.3 6 J x 15"</u> , page 205	47	Yes	
	Modification	195/65 R 15 91V	6 J x 15, refer to ⇒ <u>"3.6.3 6 J x 15"</u> , page 205	47	Yes	
		195/65 R 15 91H/V	6 1/2 J x 15, refer to ⇒ <u>"3.6.4 6 1/2 J x 15"</u> , page 206	50	Yes	
		205/60 R 15 91H/V	6 J x 15, refer to ⇒ <u>"3.6.3 6 J x 15"</u> , page 205	47	Yes	
		205/55 R 16 91H/V/W	6 1/2 J x 16, refer to ⇒ <u>"3.6.6 6 1/2 J x 16"</u> , page 208	50	No	
		225/45 R 17 91H/V/W	7 J x 17, refer to ⇒ <u>"3.6.7 7 J x 17"</u> , page 213	54	No	
	Winter Tires	195/65 R 15 91Q/T/H	6 J x 15, refer to ⇒ <u>"3.6.3 6 J x 15"</u> , page 205	47	Yes	
		205/55 R 16 91Q/T/H	6 J x 16, refer to ⇒ <u>"3.6.5 6 J x 16"</u> , page 207	50	Yes	
2.5L 125 kW; Gasoline engine	Standard Tires	205/55 R 16 91V	6 1/2 J x 16, refer to ⇒ <u>"3.6.6 6 1/2 J x 16"</u> , page 208	50	No	
	Modification	225/45 R 17 91V/W	7 J x 17, refer to ⇒ <u>"3.6.7 7 J x 17"</u> , page 213	54	No	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Winter Tires	205/55 R 16 91Q/T/H	6 J x 16, re- fer to ⇒ “3.6.5 6 J x 16” , page 207	50	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .


3.6.2 Wheel Allocation, Jetta, Sales Type 162, MY 11

Explanatory notes of indications on disc wheels, refer to ⇒ **“1.11.2 Disc Wheels, Identification”, page 45** .

Wheel bolt tightening specifications, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5

3.6.3 6 J x 15

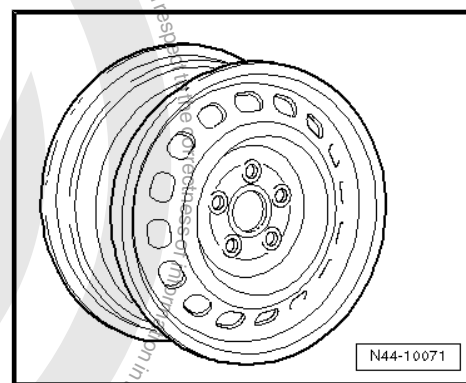


Caution

*Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ **page 203***

1K0 601 027 H - wheel/tire combination. Refer to ⇒ **page 203**

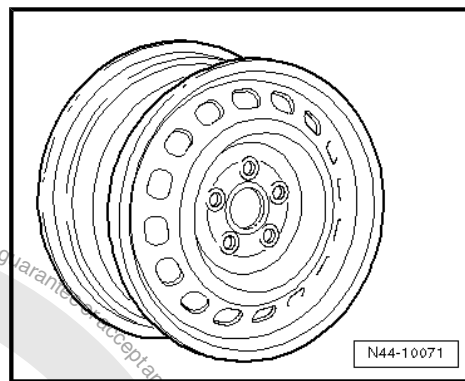
Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	615





1K0 601 027 C, 1K0 601 027 T - wheel/tire combination. Refer to
⇒ [page 203](#)

Dimension:	6 J x 15
Offset in mm:	47
Wheel load in kg:	615



3.6.4 6¹/₂ J x 15

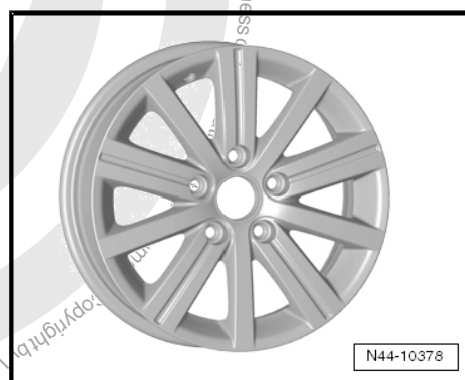


Caution

*Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to
⇒ [page 203](#)*

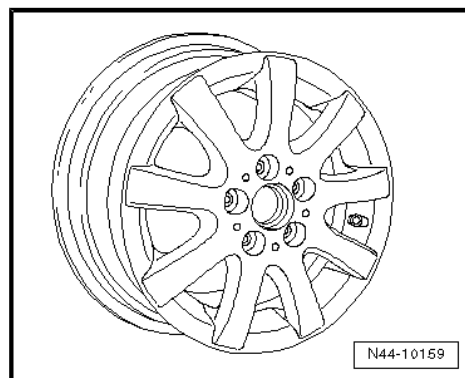
5K0 601,025 J- Wheel/tire combination. Refer to ⇒ [page 203](#)

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



1K0 601,025 A - Wheel/tire combination. Refer to ⇒ [page 203](#)

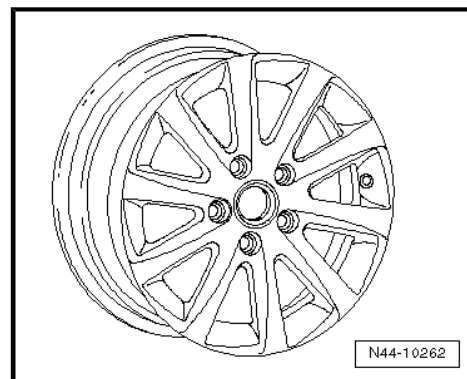
Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600





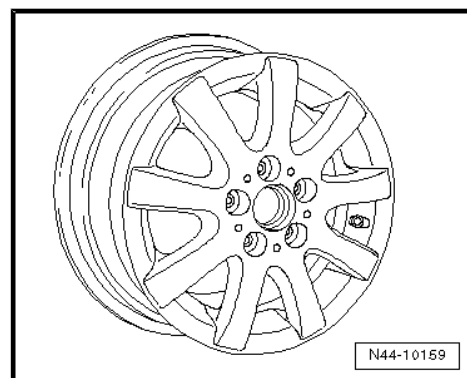
1K0 601 025 AK - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



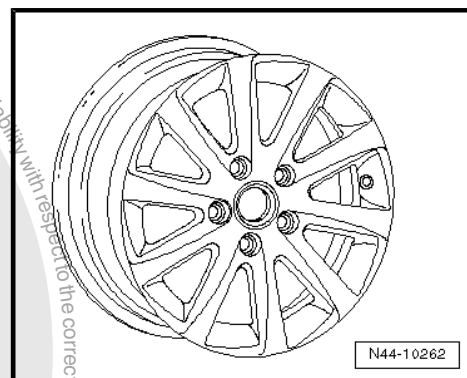
1K0 601 025 AQ - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



1K0 601 025 CA - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 15
Offset in mm:	50
Wheel load in kg:	600



3.6.5 6 J x 16



Caution

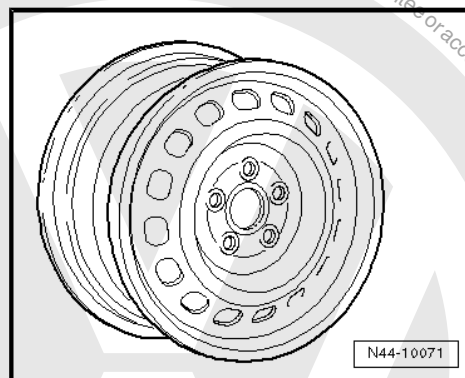
Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 203.



Winter Wheels

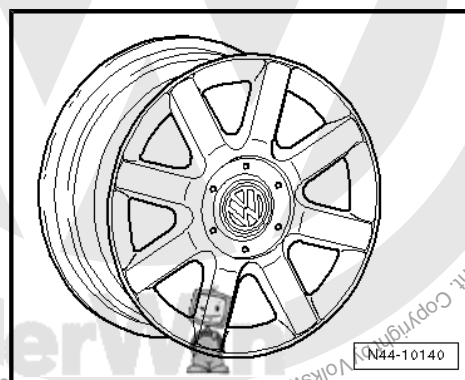
8P0 601 027 - Wheel/tire combination. Refer to ➔ [page 203](#)

Dimension:	6 J x 16
Offset in mm:	50
Wheel load in kg:	600



1K0 601 025 Q - Wheel/tire combination. Refer to ➔ [page 203](#)

Dimension:	6 J x 16 EH2, refer to ➔ "1.11.2 Disc Wheels, Identification", page 45 .
Offset in mm:	50
Wheel load in kg:	615



3.6.6 6¹/₂ J x 16

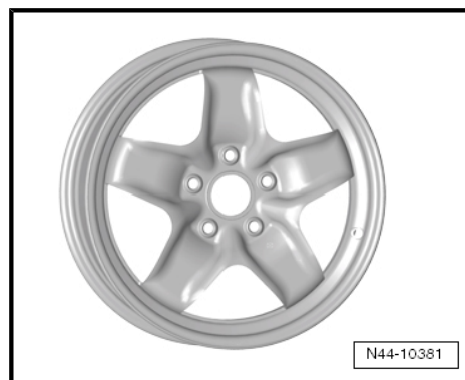


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 91](#).

5K0 601 027 - Wheel/tire combination. Refer to ➔ [page 203](#)

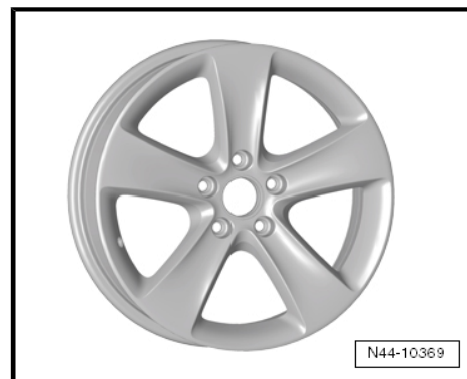
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





5C0 601 025 - wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



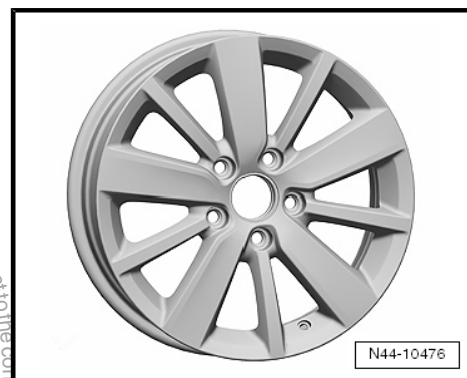
5K0 601 025 E - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



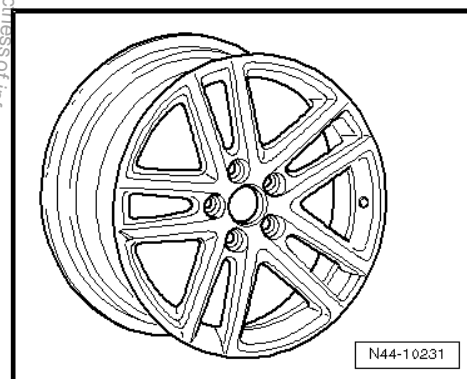
5K0 601 025 S - wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BM - wheel/tire combination. Refer to ➤ page 203

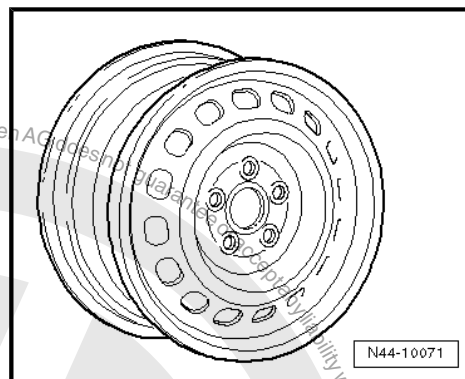
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





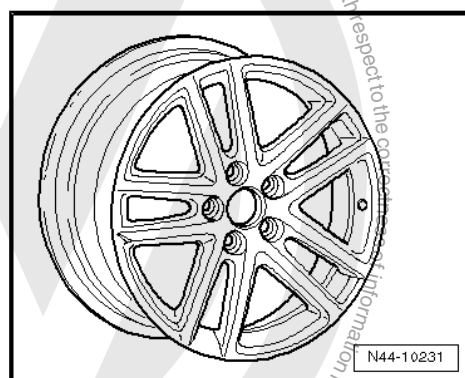
1K0 601,027 AK - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



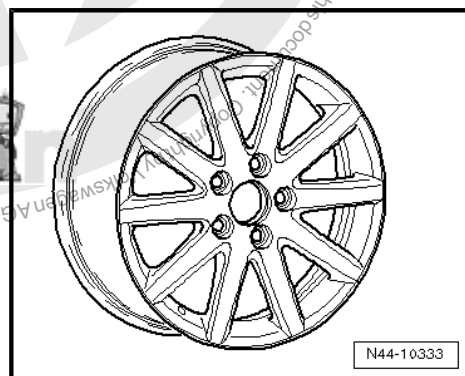
1K0 601 025 AJ - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BC - wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1K0 601 025 BR - wheel/tire combination. Refer to ➤ page 203

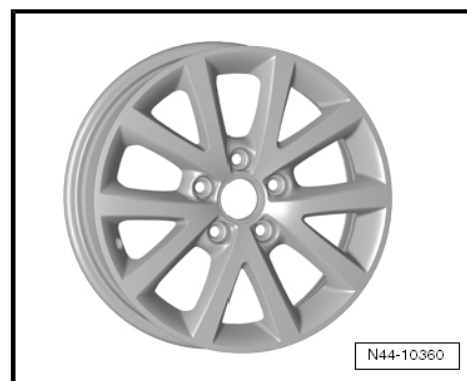
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





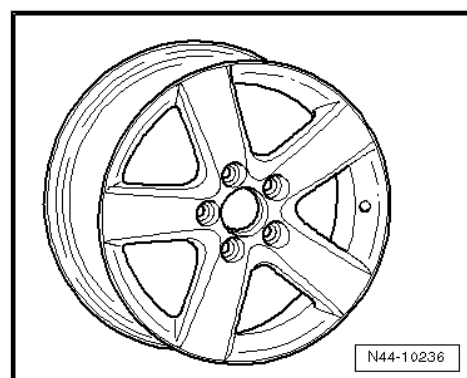
1K0 601 025 BS - wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



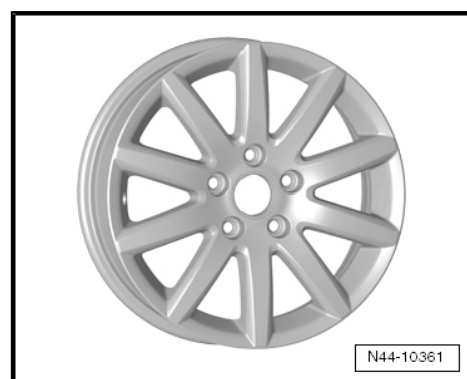
1K0 601 025 CB - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



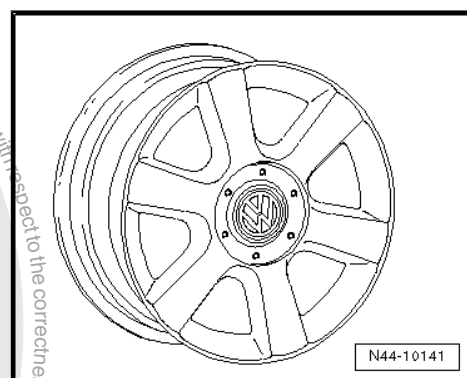
1K0 601 025 CG - wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 C - Wheel/tire combination. Refer to ➤ page 203

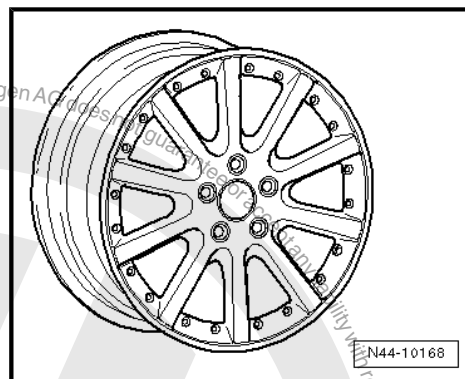
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





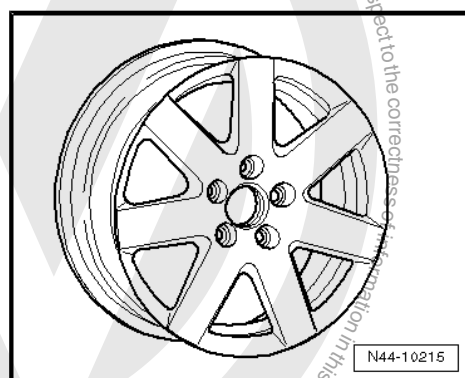
1K0 601 025 F - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



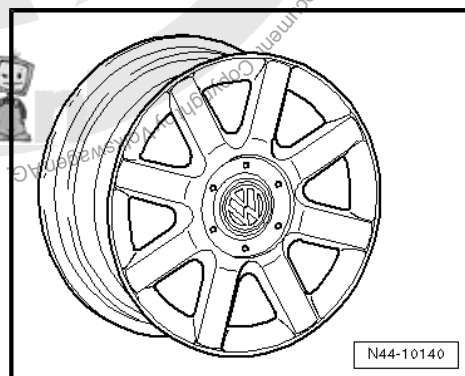
1K0 601 025 P - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



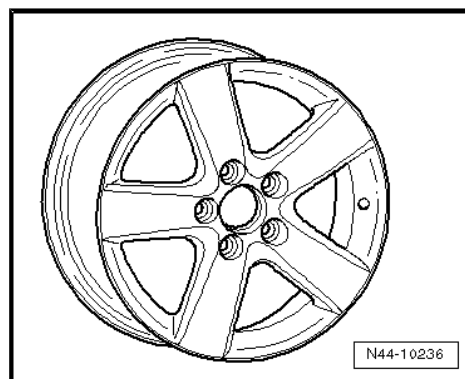
1K0 601 025 R - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 G; 1T0 601 025 K- Wheel/tire combination. Refer to ➤ page 203

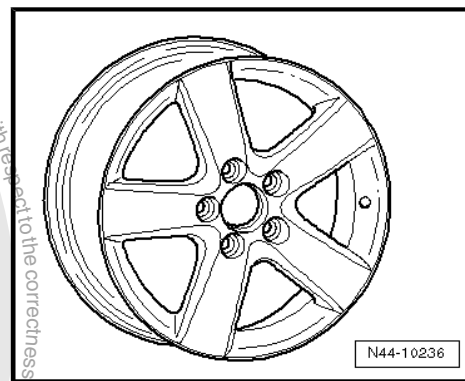
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615





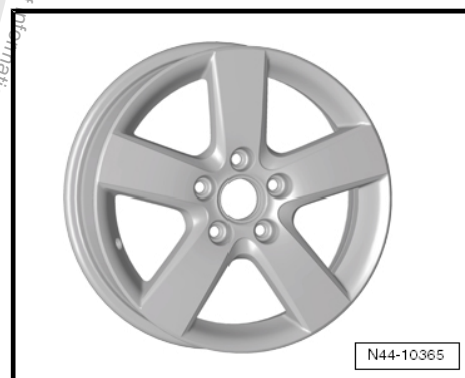
1T0.601 025 M - Wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



1T0 601 025 R - wheel/tire combination. Refer to ➤ page 203

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	50
Wheel load in kg:	615



3.6.7 7 J x 17

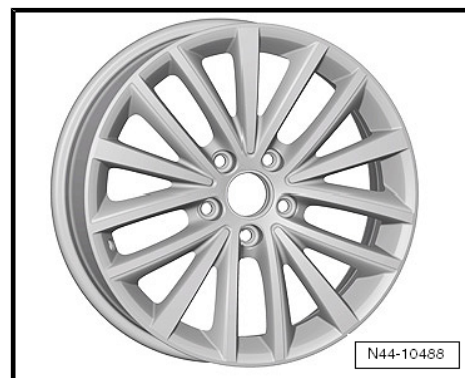


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 91.

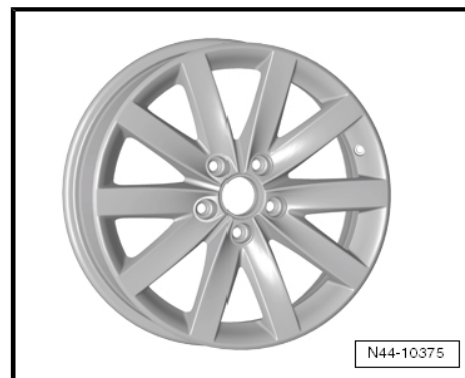
5C0 601 025 A, 5C0 601 025 B - wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 D - Wheel/tire combination. Refer to ➤ page 203

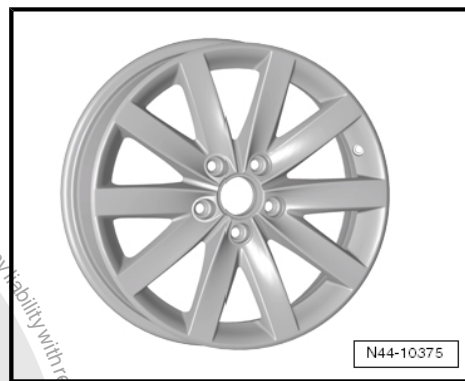
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





5K0 601 025 F - Wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 K - Wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



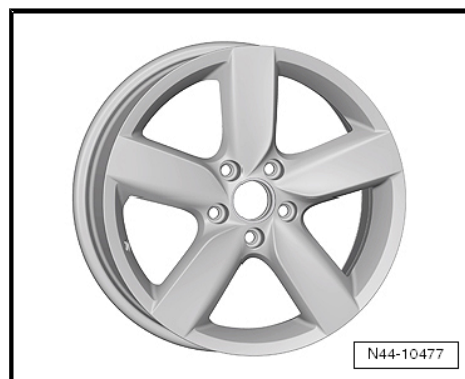
5K0 601 025 Q, 5K0 601 025 R - wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



5K0 601 025 AA - wheel/tire combination. Refer to ➤ page 203

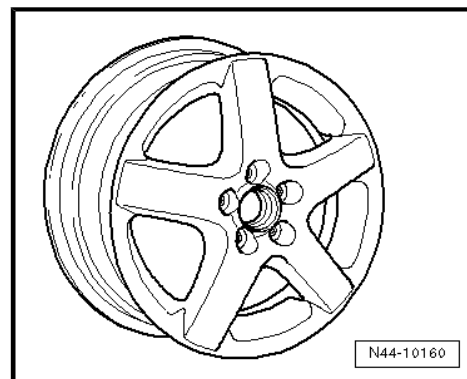
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





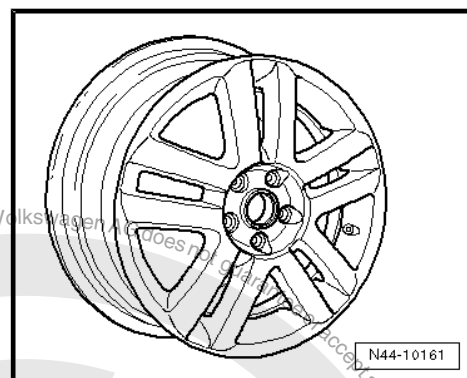
1K0 601,025 B - Wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



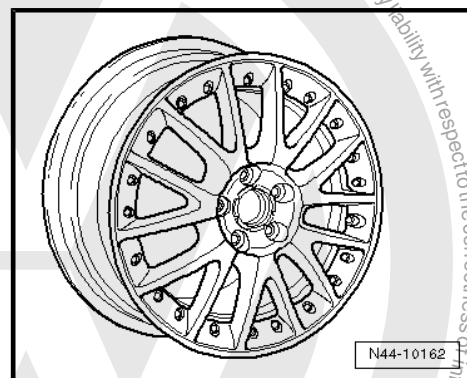
1K0 601,025 C - Wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



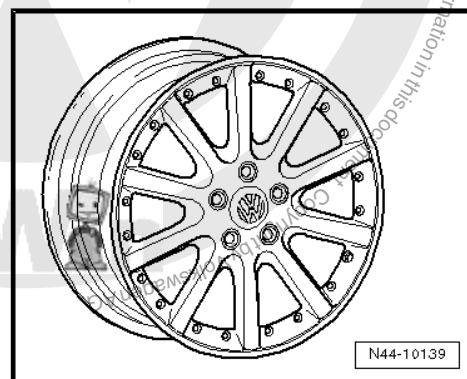
1K0 601,025 J - Wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



1K0 601,025 K - Wheel/tire combination. Refer to ➤ page 203

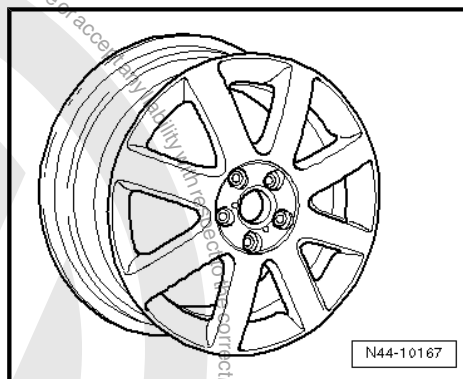
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615





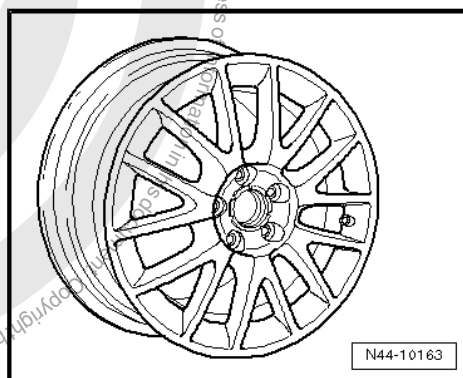
1K0 601 025 M - Wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



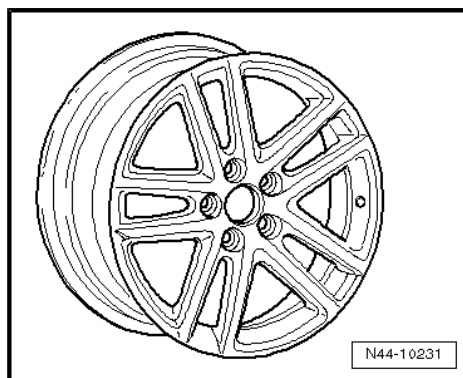
1K0 601 025 T - Wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



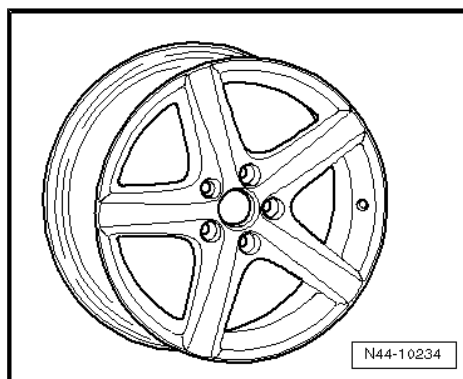
1K0 601 025 AF - Wheel/tire combination. Refer to ➤ page 203

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630



1K0 601 025 AE - Wheel/tire combination. Refer to ➤ page 203

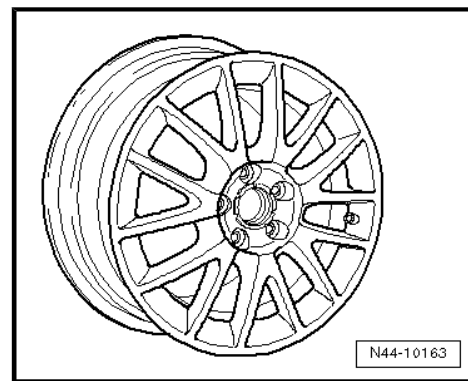
Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	630





1K0 601 025 AN - Wheel/tire combination. Refer to ➔ [page 203](#)

Dimension:	7 J x 17
Offset in mm:	54
Wheel load in kg:	615



3.7 Beetle from MY 12

➔ ["3.7.1 Beetle, Sales Type 5C1, from MY 12", page 218](#)

➔ ["3.7.2 Beetle, Sales Type 5C1, from MY 12", page 219](#)

➔ ["3.7.3 61/2 J x 16", page 219](#)

➔ ["3.7.4 7 J x 17", page 220](#)

➔ ["3.7.5 8 J x 18", page 222](#)

➔ ["3.7.6 8 J x 19", page 222](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Volkswagen Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Volkswagen Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.



3.7.1 Beetle, Sales Type 5C1, from MY 12



Caution

The Beetle is listed according to the sales type and not to the type approval.

The type approval and the associated type approval number is listed as follows.

Beetle, type approval 16

Supplement to parts certificate 8108034929

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide

Type approval number: e1*2007/46*0539*05

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Offset (ET) in mm	Snow Chains	Comments
1.2L 77 kW Gasoline engine	Standard Tires	215/60 R 16 95T	6 1/2 J x 16 ⇒ "3.7.3 61/2 J x 16", page 219	44	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89
	Modification	215/60 R 16 95H/V	6 1/2 J x 16 ⇒ "3.7.3 61/2 J x 16", page 219	44	Yes	Volkswagen recom- mended tire brands:
		215/55 R 17 94V/W	7 J x 17 ⇒ "3.7.4 7 J x 17", page 220	43	No	♦ Summer tires, re- fer to ⇒ "1.15.1 Beetle from MY 12", page 56 ♦ All-season tires, refer to ⇒ "1.16.1 Beetle from MY 12", page 67 ♦ Winter tires, refer to ⇒ "1.17.1 Beetle from MY 12", page 73
		235/45 R 18 94V/W	8 J x 18 ⇒ "3.7.5 8 J x 18", page 222	48	No	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Winter Tires	215/60 R 16 95Q/T/H	6 1/2 J x 16 ⇒ "3.7.3 61/2 J x 16", page 219	44	Yes	
2.0L 147 kW Gasoline engine	Standard Tires	215/60 R 16 95V	6 1/2 J x 16 ⇒ "3.7.3 61/2 J x 16", page 219	44	Yes	
	Modification	215/55 R 17 94V/W	7 J x 17 ⇒ "3.7.4 7 J x 17", page 220	43	No	
		235/45 R 18 94V/W	8 J x 18 ⇒ "3.7.5 8 J x 18", page 222	48	No	
		235/40 R 19 92V/W * ⇒ page 219	8 J x 19 ⇒ "3.7.6 8 J x 19", page 222	48	No	* 235/40 R 19 92V/W tires on the 8 J x 19 ET 48 rims are per- mitted only on vehi- cles with a multi-link suspension!
	Winter Tires	215/60 R 16 95Q/T/H	6 1/2 J x 16 ⇒ "3.7.3 61/2 J x 16", page 219	44	Yes	

The tire pressures are listed on the tire pressure label on the in-
side of the fuel filler door and on the B-pillar on the driver side.

3.7.2 Beetle, Sales Type 5C1, from MY 12

Beetle, type approval 16

Explanatory notes of indications on disc wheels
⇒ "1.11.2 Disc Wheels, Identification", page 45

Wheel bolt tightening specifications, refer to ⇒ Suspension,
Wheels, Steering; Rep. Gr. 44 ; Wheel Installation Tightening
Specifications

Pitch circle diameter: 112 mm

Number of wheel bolt holes: 5

3.7.3 6 1/2 J x 16



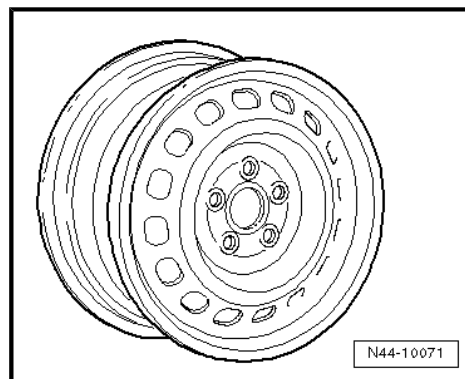
Caution

*Pay attention to wheels/tires assignments for respective en-
gine versions which are listed in the overview table
⇒ page 218 .*



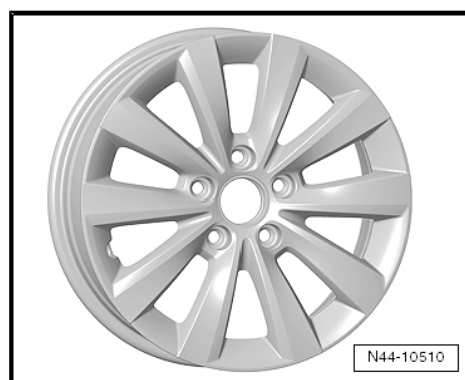
561 601 027 - wheel/tire combination ➔ page 218

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	44
Wheel load in kg:	565



**561 601 025, 5C0 601 025 T - wheel/tire combination
➔ page 218**

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	44
Wheel load in kg:	565



3.7.4 7 J x 17



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table ➔ page 218.

5C0 601 025 F - wheel/tire combination ➔ page 218

Dimension:	7 J x 17
Offset in mm:	43
Wheel load in kg:	565



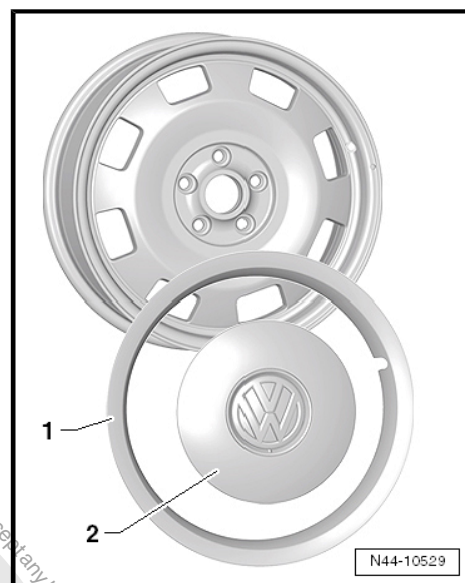


5C0 601 025 G - wheel/tire combination ➔ page 218

Rim 5C0 601 025 G is used together with rim trim ring -1- and wheel cover -2-.

- 1 - Rim 5C0 601 157 A
- 2 - Wheel cover 5C0 601 149 D

Dimension:	7 J x 17
Offset in mm:	43
Wheel load in kg:	565

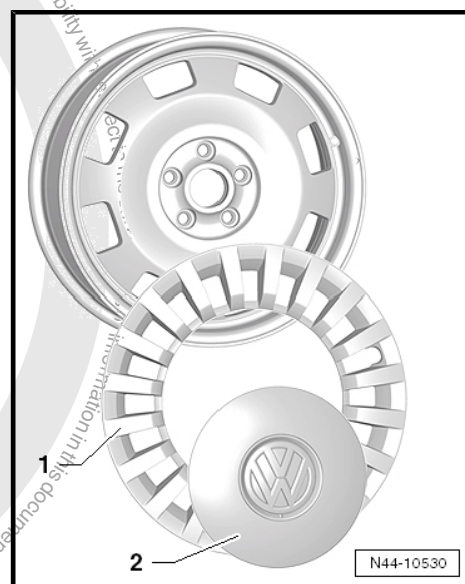


5C0 601 025 M - wheel/tire combination ➔ page 218

Rim 5C0 601 025 G is used together with rim trim ring -1- and wheel cover -2-.

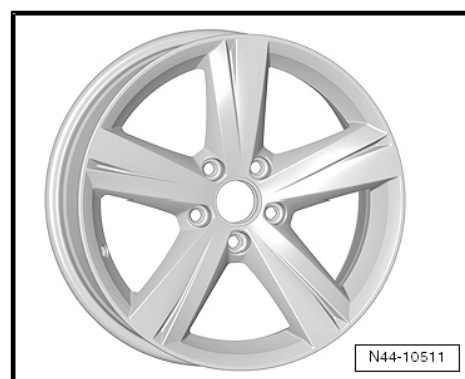
- 1 - Rim trim ring 5C0 601 157
- 2 - Wheel cover 5C0 601 149 D

Dimension:	7 J x 17
Offset in mm:	43
Wheel load in kg:	565



561 601 025 A, 5C0 601 025 AA - wheel/tire combination ➔ page 218

Dimension:	7 J x 17
Offset in mm:	43
Wheel load in kg:	565





3.7.5 8 J x 18



Caution

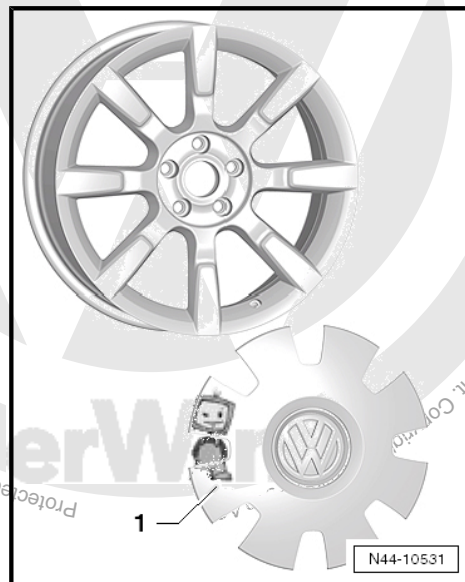
*Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table
⇒ [page 218](#).*

5C0 601 025 H - wheel/tire combination ⇒ [page 218](#)

Use rim 5C0 601 025 H with wheel cover -1.

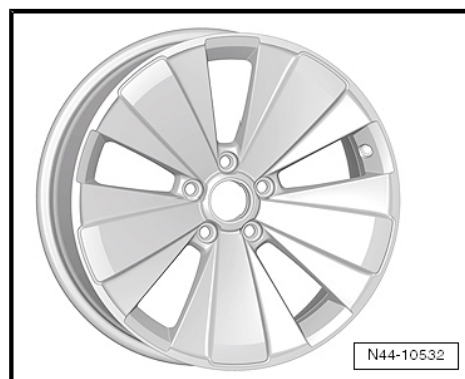
1 - Wheel cover 5C0 601 149 C

Dimension:	8 J x 18
Offset in mm:	48
Wheel load in kg:	565



5C0 601 025 J - wheel/tire combination ⇒ [page 218](#)

Dimension:	8 J x 18
Offset in mm:	48
Wheel load in kg:	580



3.7.6 8 J x 19



Caution

*Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table
⇒ [page 218](#).*



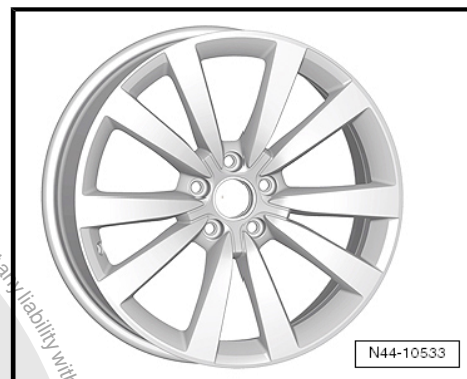
Caution

*235/40 R 19 92V/W tires on the 8 J x 19 ET 48 rim is permitted
only on vehicles with a multi-link suspension!*



5C0 601 025 N - wheel/tire combination ➔ [page 219](#)

Dimension:	8 J x 19
Offset in mm:	48
Wheel load in kg:	580



3.8 New Beetle Cabriolet, from MY 2003

➔ ["3.8.1 New Beetle Cabriolet, Type 1Y, MY 2003 through MY 2010", page 224](#)

➔ ["3.8.2 Wheel Assignment, New Beetle Cabriolet, Type 1Y, MY 2003 through MY 2010", page 227](#)

➔ ["3.8.3 6 J x 15", page 227](#)

➔ ["3.8.4 5 1/2 J x 16", page 229](#)

➔ ["3.8.5 6 1/2 J x 16", page 230](#)

➔ ["3.8.6 7 J x 17", page 235](#)

➔ ["3.8.7 7 1/2 J x 17", page 238](#)

➔ ["3.8.8 17" Wheels and Tires, Conditions for Mounting", page 238](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed parts certificate.



WARNING

When assembling disc wheels by Votex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.8.1 New Beetle Cabriolet, Type 1Y, MY 2003 through MY 2010

Parts certificate 3808/09

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires. Wheels and Tires, Wheel and Tire Guide.

Type Approval Number: e1*2001/116*0205*00 to
e1*2001/116*0205*16

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.4L 55 kW Gasoline engine	Standard Tires	195/65 R 15 91T	6 J x 15 , refer to ⇒ "3.8.3.6 J x 15", page 227	38	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89
	Modification	205/55 R 16 91H	6 1/2 J x 16 , refer to ⇒ "3.8.5.6 1/2 J x 16", page 230	42	No	Volkswagen recom- mended tire brands:
		225/45 R 17 91V/W	7 J x 17 , refer to ⇒ "3.8.6.7 J x 17", page 235	38	No	♦ Summer tires, re- fer to ⇒ "1.15.2 New Beetle Cabriolet, from MY 2003", page 56 ♦ All-season tires, refer to ⇒ "1.16.2 New Beetle Cabriolet, from MY 2003", page 68 ♦ Winter tires, refer to ⇒ "1.17.2 New Beetle Cabriolet, from MY 2003", page 73



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.6L 75 kW Gasoline engine; 1.9L 74 kW; 1.9L 77 kW Diesel engine	Winter Tires	195/65 R 15 91Q/T	6 J x 15, refer to ⇒ "3.8.3 6 J x 15", page 227	38	Yes	Mounting the tires 225/45 R 17 on rims 7 J x 17 and 7 1/2 J x 17 are permitted only if the conditions listed are fulfilled! Refer to ⇒ "3.8.8 17" Wheels and Tires, Condi- tions for Mounting", page 238 On the aluminum wheels 6 1/2 J x 16 the adhesive weights for balancing must be attached to the in- ner side of the rim!
		205/55 R 16 91T	5 1/2 J x 16 , refer to ⇒ "3.8.4 51/2 J x 16", page 229	36	Yes	
	Standard Tires	195/65 R 15 91T	6 J x 15, refer to ⇒ "3.8.3 6 J x 15", page 227	38	Yes	
	Modification	205/55 R 16 91H	6 1/2 J x 16, refer to ⇒ "3.8.5 61/2 J x 16", page 230	42	No	
		225/45 R 17 91V/W	7 J x 17, refer to ⇒ "3.8.6 7 J x 17", page 235	38	No	
		225/45 R 17 91V/W	7 1/2 J x 17 , refer to ⇒ "3.8.7 71/2 J x 17", page 238	38	No	
		Winter Tires	195/65 R 15 91Q/T	38	Yes	
			205/55 R 16 91T	36	Yes	
	Standard Tires	195/65 R 15 91H	6 J x 15, refer to ⇒ "3.8.3 6 J x 15", page 227	38	Yes	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Modification	205/55 R 16 91H	6 1/2 J x 16, refer to ⇒ "3.8.5 61/2 J x 16", page 230	42	No	
		225/45 R 17 91V/W	7 J x 17, refer to ⇒ "3.8.6 7 J x 17", page 235	38	No	
		225/45 R 17 91V/W	7 1/2 J x 17 ⇒ "3.8.7 71/2 J x 17", page 238	38	No	
	Winter Tires	195/65 R 15 91Q/T	6 J x 15, refer to ⇒ "3.8.3 6 J x 15", page 227	38	Yes	
		205/55 R 16 91T	5 1/2 J x 16 ⇒ "3.8.4 51/2 J x 16", page 229	36	Yes	
1.8L 110 kW Gasoline engine	Standard Tires	195/65 R 15 91V	6 J x 15, refer to ⇒ "3.8.3 6 J x 15", page 227	38	Yes	
	Modification	205/55 R 16 91V	6 1/2 J x 16 ⇒ "3.8.5 61/2 J x 16", page 230	42	No	
		225/45 R 17 91V/W	7 J x 17, refer to ⇒ "3.8.6 7 J x 17", page 235	38	No	
		225/45 R 17 91V/W	7 1/2 J x 17, refer to ⇒ "3.8.7 71/2 J x 17", page 238	38	No	
	Winter Tires	195/65 R 15 91Q/T	6 J x 15, refer to ⇒ "3.8.3 6 J x 15", page 227	38	Yes	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		205/55 R 16 91T	5 1/2 J x 16, refer to <u>“3.8.4 5 1/2 J x 16”</u> , page 229	36	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .


3.8.2 Wheel Assignment, New Beetle Cabriolet, Type 1Y, MY 2003 through MY 2010

Explanatory notes of indications on disc wheels, refer to ⇒ “1.11.2 Disc Wheels, Identification”, page 45 .

Tightening specifications for wheel bolts, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	100 mm
Number of wheel bolt holes:	5

3.8.3 6 J x 15

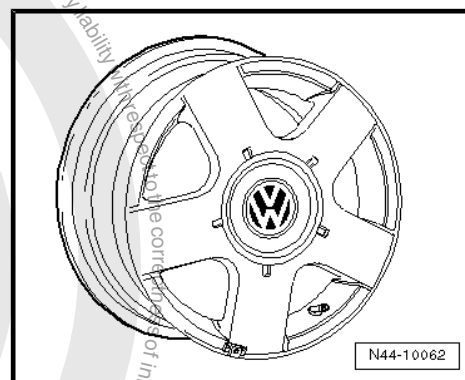
 **Caution**
Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ page 224 .

1J0 601 025 B, 1J0 601 025 AA - Wheel/tire combination. Refer to ⇒ page 224



Only for vehicles with maximum allowed axle load of 1,000 kg.

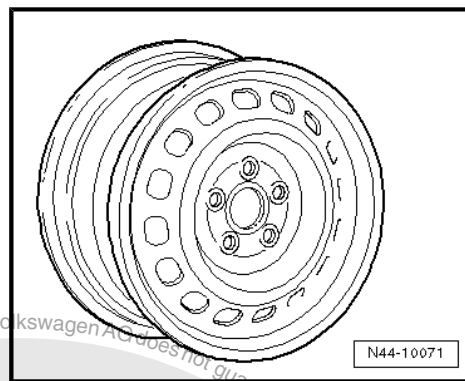
Dimension:	6 J x 15
Offset in mm:	38
Wheel load in kg:	500





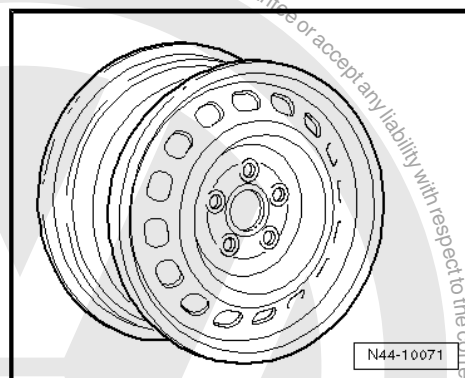
1J0 601 027 K - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 J x 15
Offset in mm:	38
Wheel load in kg:	550



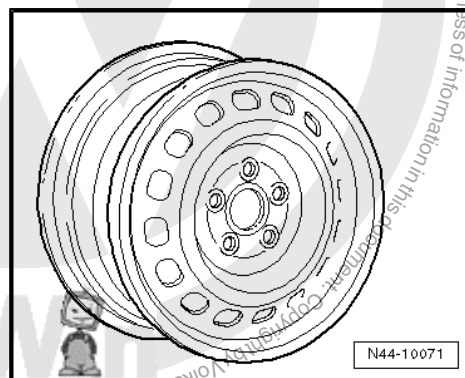
1J0 601 027 H, 1J0 601 027 Q - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 J x 15
Offset in mm:	38
Wheel load in kg:	550



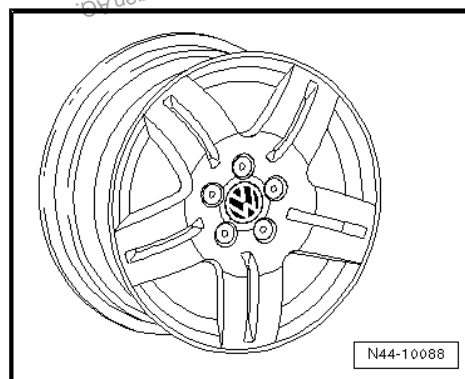
1J0 601,027 AB - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 J x 15
Offset in mm:	38
Wheel load in kg:	550



1J0 601,025 Q - Wheel/tire combination. Refer to ➤ [page 224](#)

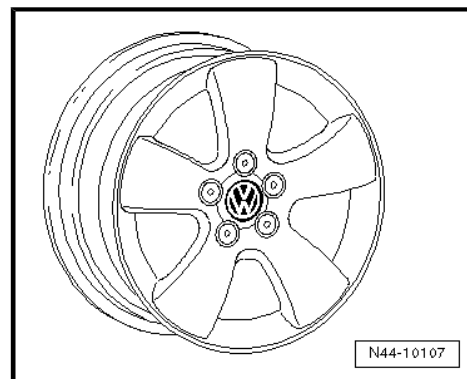
Dimension:	6 J x 15
Offset in mm:	38
Wheel load in kg:	530





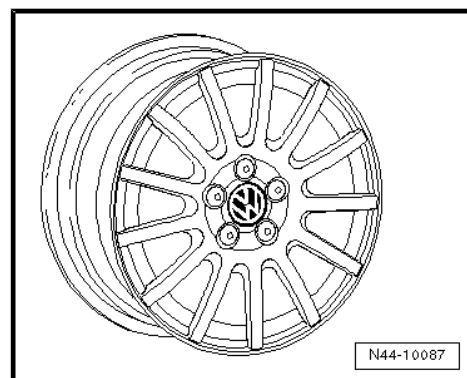
1C0 601 025 F - Wheel/tire combination. Refer to ➤ page 224

Dimension:	6 J x 15
Offset in mm:	38
Wheel load in kg:	550



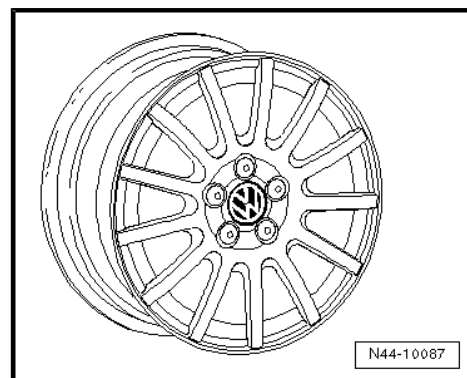
1J0 601 025 P, 1J0 601 025 AL - Wheel/tire combination. Refer to ➤ page 224

Dimension:	6 J x 15
Offset in mm:	38
Wheel load in kg:	550



1J0 601 025 BD - Wheel/tire combination. Refer to ➤ page 224

Dimension:	6 J x 15
Offset in mm:	38
Wheel load in kg:	580



3.8.4 5 1/2 J x 16



Caution

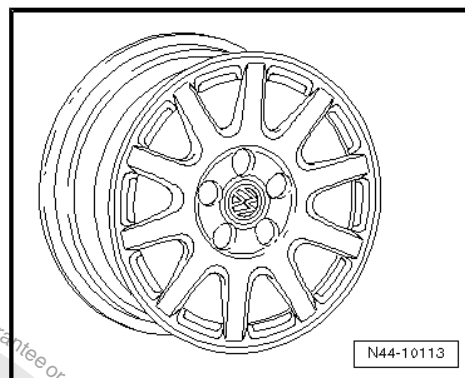
Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 224 .



Winter Wheels

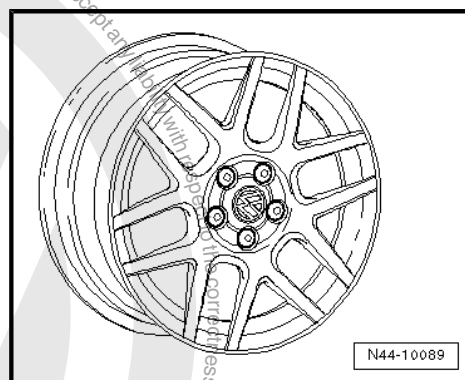
1J0 601 025 M, 1J0 601 025 AF - Wheel/tire combination. Refer to ➤ [page 225](#)

Dimension:	5 $\frac{1}{2}$ J x 16
Offset in mm:	36
Wheel load in kg:	550



1J0 601 025 AP - Wheel/tire combination. Refer to ➤ [page 225](#)

Dimension:	5 $\frac{1}{2}$ J x 16
Offset in mm:	36
Wheel load in kg:	550



3.8.5 6 $\frac{1}{2}$ J x 16



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ [page 224](#).

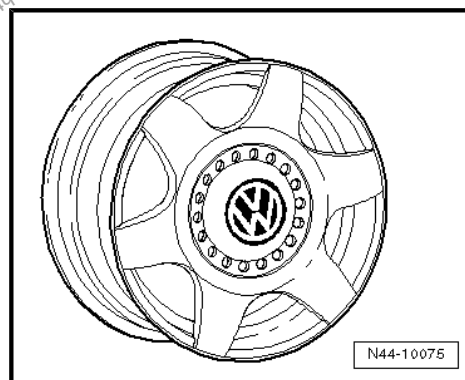
1C0 601 025 A, 1C0 601 025 D - Wheel/tire combination. Refer to ➤ [page 224](#)



Note

Only for vehicles with maximum allowed axle load of 1,000 kg.

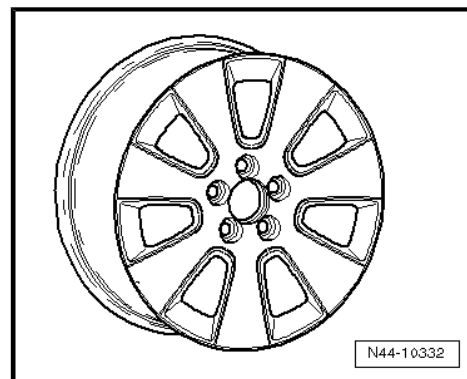
Dimension:	6 $\frac{1}{2}$ J x 16
Offset in mm:	42
Wheel load in kg:	500





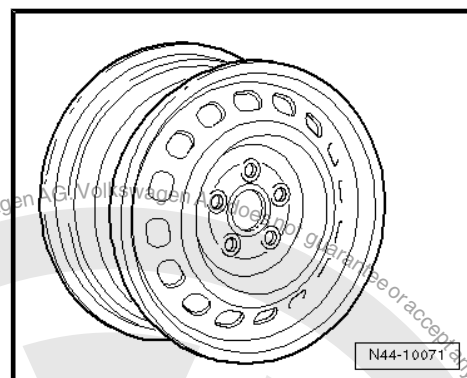
1C0 601 025 AH - wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



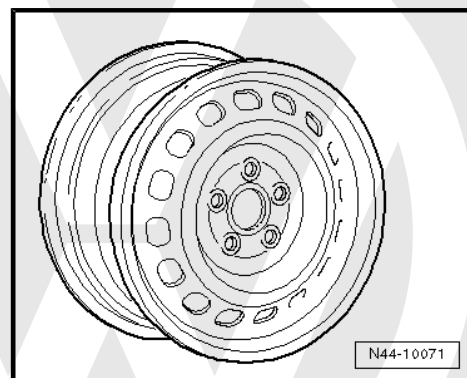
1J0 601 027 L, 1J0 601 027 R - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



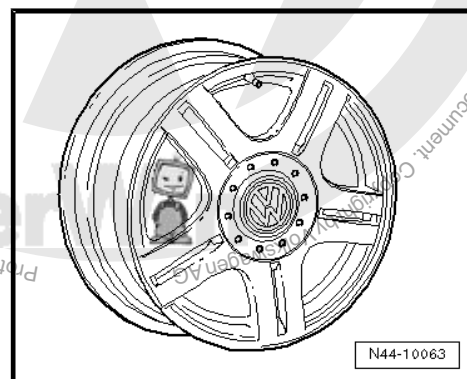
1J0 601 027 T, 1J0 601 027 AF - wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



1J0 601 025 F, 1J0 601 025 AC - Wheel/tire combination. Refer to ➤ [page 224](#)

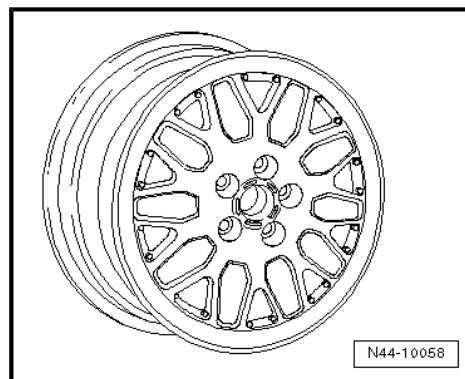
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	530





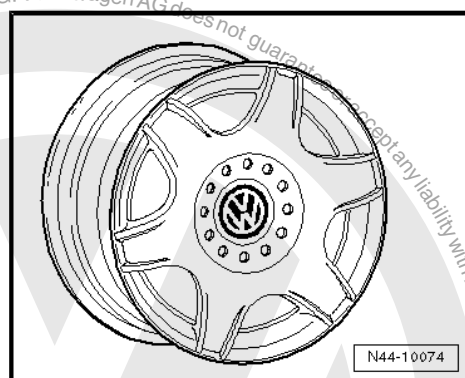
1J0 601 025 E, 1J0 601 025 AD - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	530



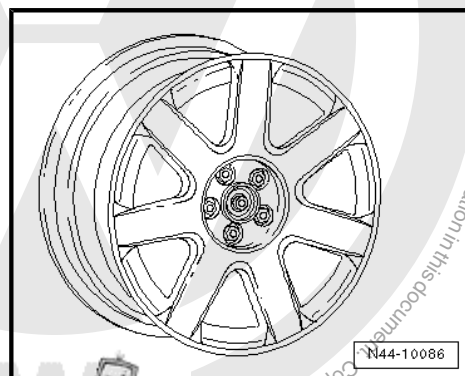
1J0 601 025 H, 1J0 601 025 AH - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	530



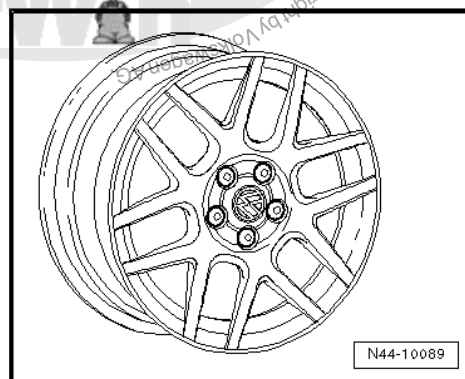
1J0 601 025 L, 1J0 601 025 AE - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



1J0 601 025 R, 1J0 601 025 AN - Wheel/tire combination. Refer to ➤ [page 224](#)

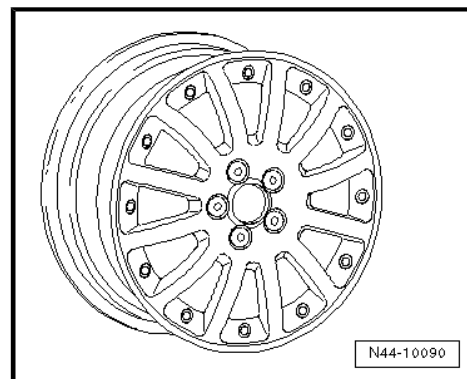
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550





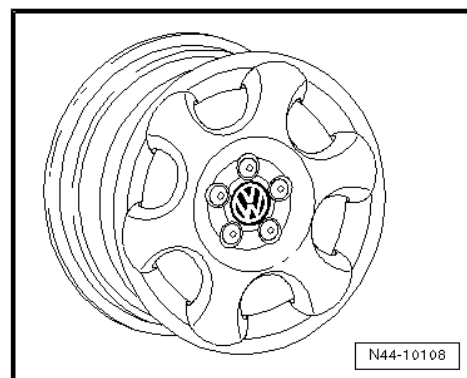
1J0 601 025 T, 1J0 601 025 AJ - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



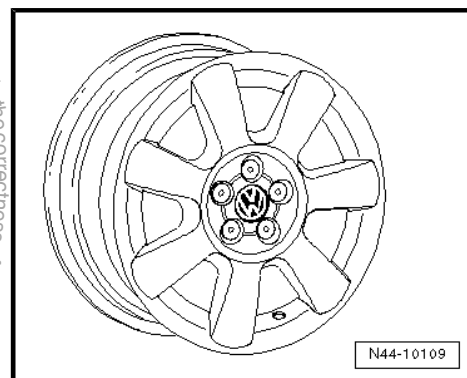
1C0 601 025 G, 1C0 601 025 AA - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



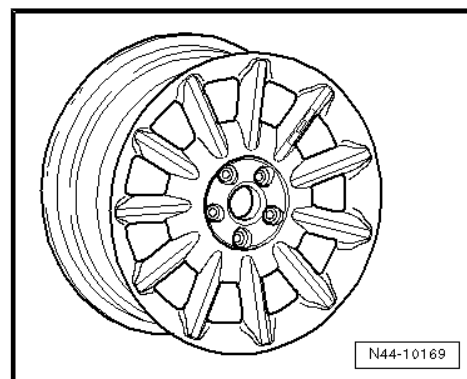
1C0 601 025 H - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



1C0 601,025 N - Wheel/tire combination. Refer to ➤ [page 224](#)

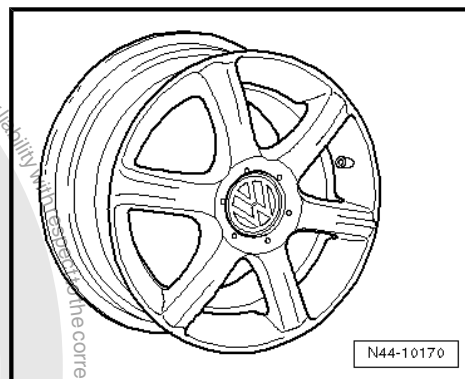
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550





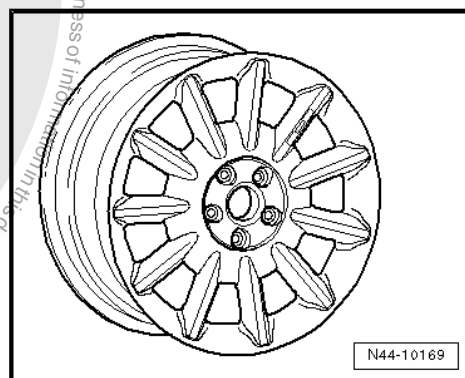
1C0 601 025 P - Wheel/tire combination. Refer to [⇒ page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



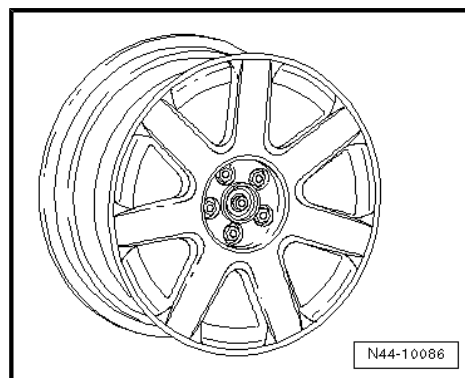
1C0 601 025 T - Wheel/tire combination. Refer to [⇒ page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



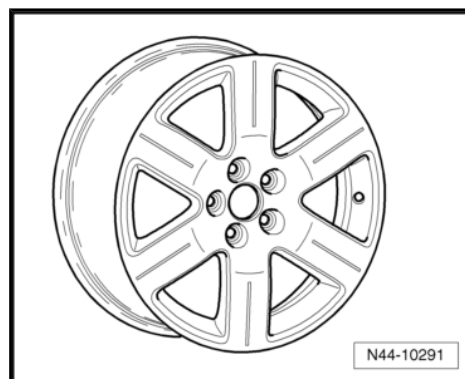
1C0 601 025 AB- Wheel/tire combination. Refer to [⇒ page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



1C0 601 025 AC, 1C0 601 025 AF- Wheel/tire combination. Refer to [⇒ page 224](#)

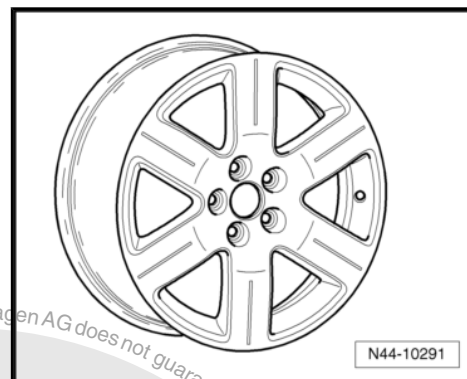
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550





1C0 601 025 AJ - wheel/tire combination. Refer to ➔ [page 224](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	550



3.8.6 7 J x 17

The following wheels are permitted only if the conditions listed are fulfilled! Refer to

➔ ["3.8.8 17" Wheels and Tires, Conditions for Mounting", page 238](#).

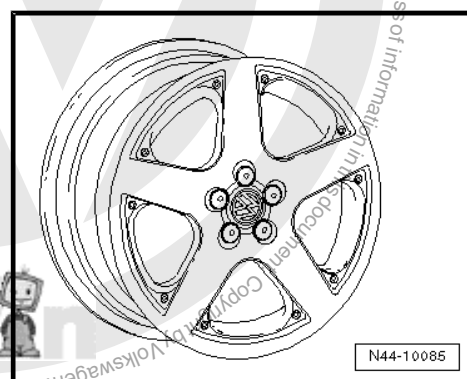


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 224](#).

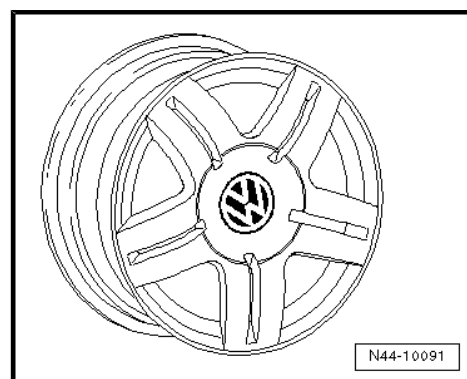
1J0 601 025 J, 1J0 601 025 S - Wheel/tire combination. Refer to ➔ [page 224](#)

Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	580



1J0 601 025 AB - Wheel/tire combination. Refer to ➔ [page 224](#)

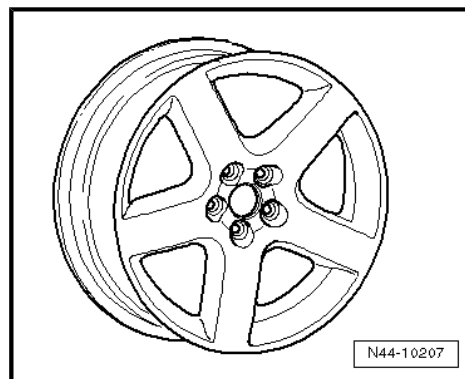
Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550





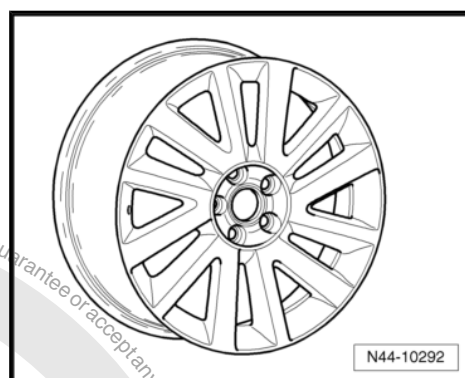
1C0 601 025 AE - Wheel/tire combination. Refer to ➤ page 224

Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550



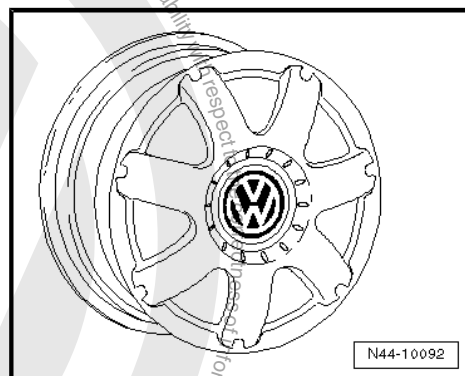
1C0 601 025 AG- Wheel/tire combination. Refer to ➤ page 224

Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550



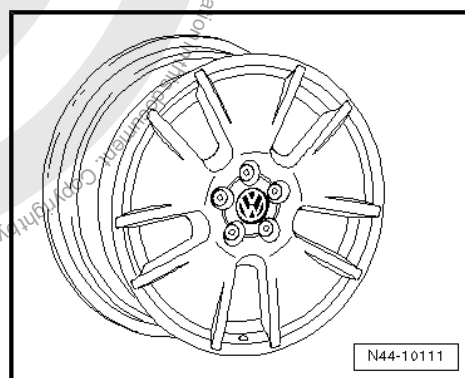
1C0 601 025 B, 1C0 601 025 E - Wheel/tire combination. Refer to ➤ page 224

Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550



1C0 601 025 J - Wheel/tire combination. Refer to ➤ page 224

Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550

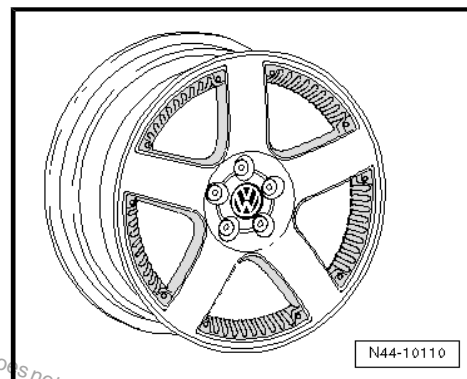




1C0 601 025 K, 1C0 601 025 Q - Wheel/tire combination. Refer to ➤ [page 224](#)

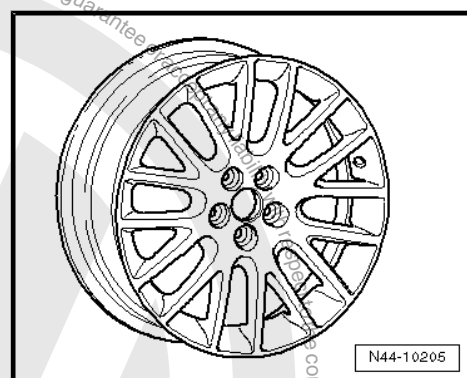
Light alloy disc wheels with replaceable decoration elements, refer to ➤ [page 224](#)

Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550



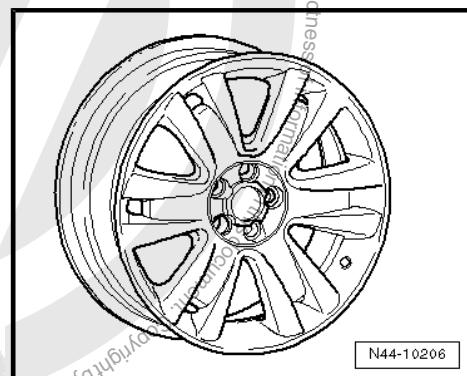
1J0 601 025 AS - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550



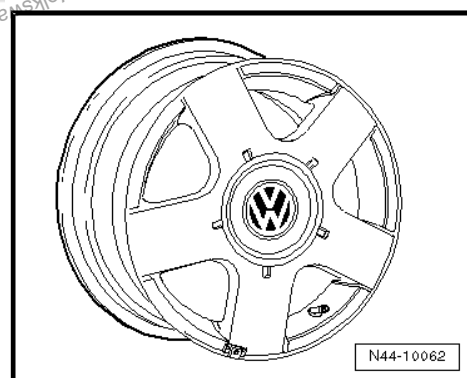
1C0 601 025 M - Wheel/tire combination. Refer to ➤ [page 224](#)

Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550



1C0 601 025 R - Wheel/tire combination. Refer to ➤ [page 224](#)

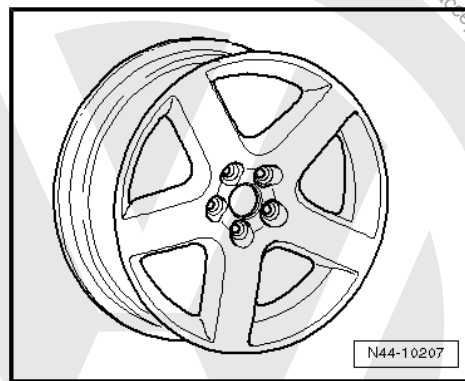
Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550





1J0 601 025 BE - Wheel/tire combination. Refer to ➤ page 224

Dimension:	7 J x 17
Offset in mm:	38
Wheel load in kg:	550



3.8.7 7¹/₂ J x 17

The following wheels are permitted only if the conditions listed are fulfilled! Refer to
➤ **"3.8.8 17" Wheels and Tires, Conditions for Mounting",**
page 238

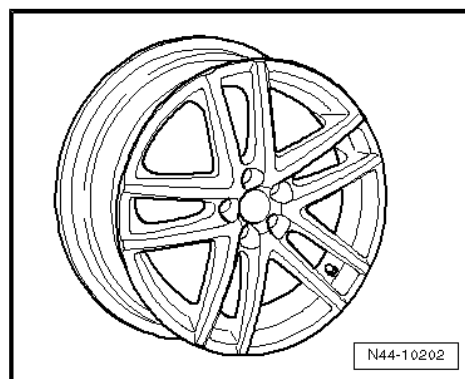


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 224 .

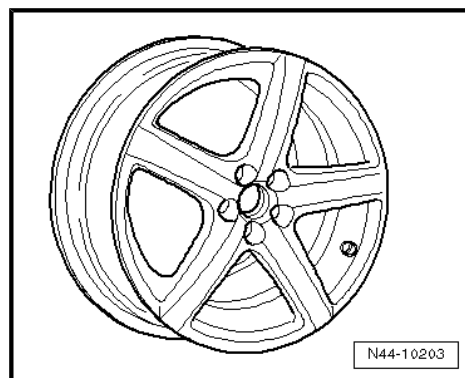
1J0 601 025 BF - Wheel/tire combination. Refer to ➤ page 225

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	38
Wheel load in kg:	550



1J0 601 025 BH - Wheel/tire combination. Refer to ➤ page 225

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	38
Wheel load in kg:	560



3.8.8 17" Wheels and Tires, Conditions for Mounting

17" wheels with tires 225/45 R 17 are only possible:

1. For vehicles from MY 2003.
2. When a vehicle has a 17" sport suspension and a steering gear with reduced steering arm travel installed.



Assignment steering gear/PR No. for engine:	
PR No. of Steering Gear	Engine
QZ 3 ⁵⁾	1.8L, 2.0L Gasoline engines; 1.9L Diesel engines
QZ 4 ⁵⁾	up to and including 1.6L Gasoline engines

5) Replacement part numbers, refer to the Electronic Replacement Parts Catalog (ETKA).

3. If tires with a maximum width of 218 mm are used.

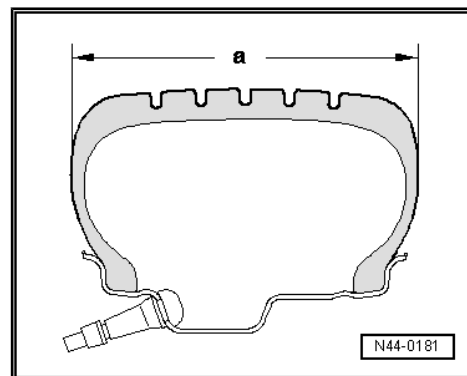
4. If no snow chains are used.

Maximum Width for 17" Tires

If a vehicle is retrofitted with 17" tires or if existing 17" tires are replaced, use only tires with a maximum width -a- which does not exceed 218 mm in operation ⁶⁾.

6) If the measured width of the tire including lettering on 7 J x 17 and 7 1/2 J x 17 rims and is at the specified tire pressure.

If wider tires are used, they may contact the front axle and bodywork under certain circumstances during operation.



3.9 Tiguan, from MY 2008

⇒ ["3.9.1 Tiguan, Type 5N, MY 2008 through MY 2011", page 240](#)

⇒ ["3.9.2 Tiguan Wheel Allocation, Type 5N, MY 2008 through MY 2011", page 241](#)

⇒ ["3.9.3 6 1/2 J x 16", page 241](#)

⇒ ["3.9.4 6 1/2 J x 17", page 242](#)

⇒ ["3.9.5 7 J x 17", page 242](#)

⇒ ["3.9.6 7 J x 18", page 243](#)

⇒ ["3.9.7 9 J x 19", page 244](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Vortex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels.



Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Votex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.9.1 Tiguan, Type 5N, MY 2008 through MY 2011

Supplement to parts certificate 8106807159

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number: e1*2001/116*0450*00 through e1*2001/116*0450*09

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Offset (ET) in mm	Snow Chains	Comments
2.0L 81 kW TDI 2.0L 100 kW TDI 2.0L 103 kW TDI 2.0L 120 kW TDI 2.0L 125 kW TDI Diesel engine	Standard Tires	215/65 R 16 98H	6 1/2 J x 16 , refer to ⇒ "3.9.3.6 1/2 J x 16", page 241	33	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, refer to ⇒ "2.13 Snow Chains", page 89
1.4L 110 kW 2.0L 125 kW 2.0L 147 kW Gasoline engines	Modification	215/60 R 17 96H	6 1/2 J x 17 , refer to ⇒ "3.9.4 6 1/2 J x 17", page 242	33	Yes	Volkswagen recommended tire brands: ♦ Summer tires, refer to ⇒ "1.15.8 Tiguan, from MY 2008", page 62
		235/55 R 17 99H	7 J x 17 , refer to ⇒ "3.9.5 7 J x 17", page 242	43	No	♦ All-season tires, refer to ⇒ "1.16.7 Tiguan, from MY 2008", page 70
		235/50 R 18 97H	7 J x 18 , refer to ⇒ "3.9.6 7 J x 18", page 243	43	No	♦ Winter tires, refer to ⇒ "1.17.8 Tiguan, from MY 2008", page 75



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		255/40 R 19 96H * ⇒ page 241	9 J x 19 , refer to ⇒ "3.9.7 9 J x 19", page 244	33	No	* A 255/40 R 19 96H tire on a 9 J x 19 ET 33 rim permissi- ble only on vehicles with a sport chassis and a wheel housing extension!
	Winter Tires	215/65 R 16 98T/H	6 1/2 J x 16, refer to ⇒ "3.9.3 6 1/2 J x 16", page 241	33	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.9.2 Tiguan Wheel Allocation, Type 5N, MY 2008 through MY 2011

Explanatory notes of indications on disc wheels, refer to ⇒ ["1.11.2 Disc Wheels, Identification", page 45](#) .

Wheel bolt tightening specifications, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5

3.9.3 6 1/2 J x 16

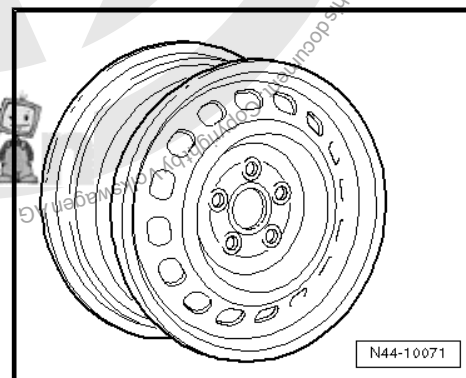


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 240](#) .

5N0 601 027 B - wheel/tire combination. Refer to ⇒ [page 240](#)

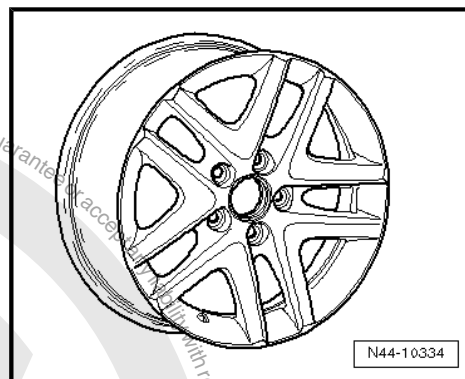
Dimension:	6 1/2 J x 16
Offset in mm:	33
Wheel load in kg:	625





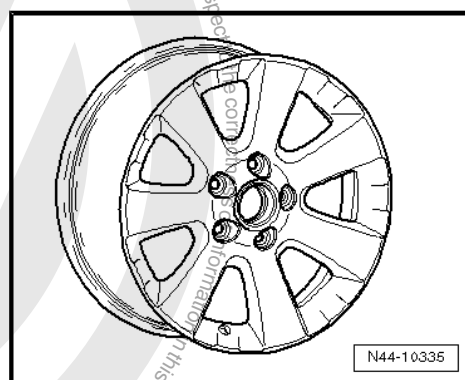
5N0 601 025 - wheel/tire combination. Refer to ➔ page 240

Dimension:	6 1/2 J x 16
Offset in mm:	33
Wheel load in kg:	625



5N0 601,025 A - wheel/tire combination. Refer to ➔ page 240

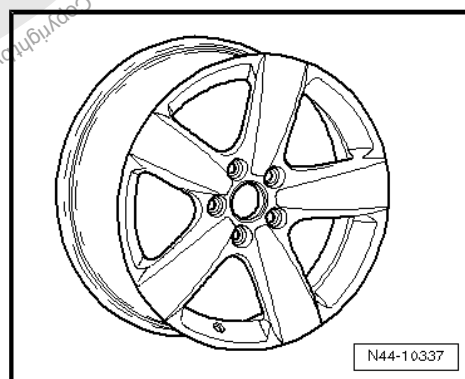
Dimension:	6 1/2 J x 16
Offset in mm:	33
Wheel load in kg:	625



3.9.4 6 1/2 J x 17

5N0 601 025 L - wheel/tire combination. Refer to ➔ page 240

Dimension:	6 1/2 J x 17
Offset in mm:	33
Wheel load in kg:	625



3.9.5 7 J x 17



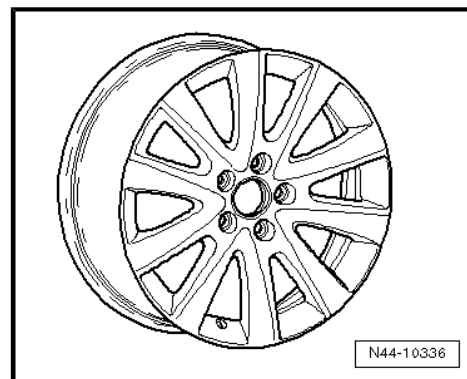
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 240.



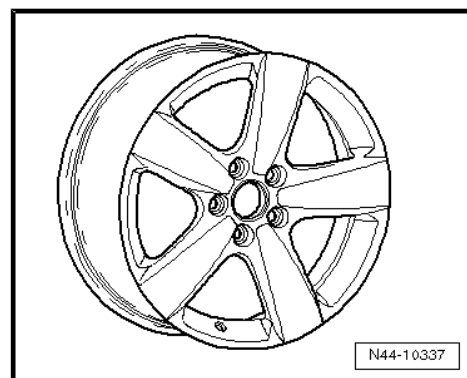
5N0 601,025 B - wheel/tire combination. Refer to ➤ page 240

Dimension:	7 J x 17
Offset in mm:	43
Wheel load in kg:	625



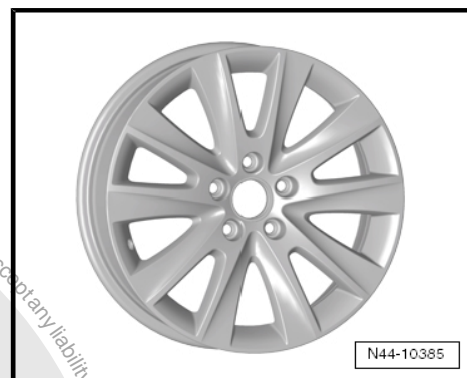
5N0 601 025 C - wheel/tire combination. Refer to ➤ page 240

Dimension:	7 J x 17
Offset in mm:	43
Wheel load in kg:	625



5N0 601 025 M - wheel/tire combination. Refer to ➤ page 240

Dimension:	7 J x 17
Offset in mm:	43
Wheel load in kg:	625



3.9.6 7 J x 18

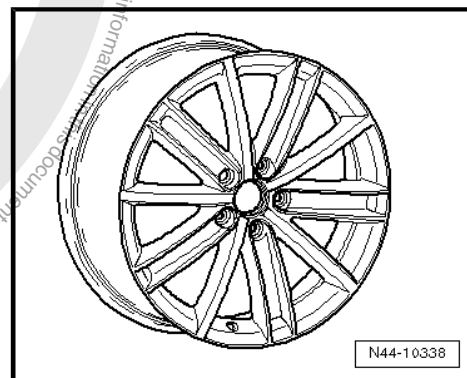


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 240 .

5N0 601 025 D - wheel/tire combination. Refer to ➤ page 240

Dimension:	7 J x 18
Offset in mm:	43
Wheel load in kg:	625





5N0 601 025 Q - wheel/tire combination. Refer to ➔ [page 240](#)

Dimension:	7 J x 18
Offset in mm:	43
Wheel load in kg:	650



3.9.7 9 J x 19



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 240](#).

5N0 601 025 G - wheel/tire combination. Refer to ➔ [page 241](#)



Note

Only for vehicles with sport chassis and wheel housing extension.

Dimension:	9 J x 19
Offset in mm:	33
Wheel load in kg:	650



5N0 601,025 K - wheel/tire combination. Refer to ➔ [page 241](#)



Note

Only for vehicles with sport chassis and wheel housing extension.

Dimension:	9 J x 19
Offset in mm:	33
Wheel load in kg:	650





3.10 Eos, from MY 2006

⇒ ["3.10.1 Eos, Type 1F, MY 2006", page 245](#)

⇒ ["3.10.2 Eos, Type 1F, MY 2007 through MY 2010", page 248](#)

⇒ ["3.10.3 Eos Wheel Allocation, Type 1F MY 2006 through MY 2010", page 251](#)

⇒ ["3.10.4 6 1/2 J x 16", page 252](#)

⇒ ["3.10.5 7 J x 16", page 252](#)

⇒ ["3.10.6 6 J x 17", page 254](#)

⇒ ["3.10.7 7 1/2 J x 17", page 254](#)

⇒ ["3.10.8 8 J x 18", page 256](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Votex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.10.1 Eos, Type 1F, MY 2006

Parts certificate 3541/09

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.



Type Approval Number: e1*2001/116*0349*00 to
e1*2001/116*0349*03

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
2.0L 103 kW Diesel engine	Standard Tires	215/55 R 16 93V	7 J x 16 , refer to ⇒ "3.10.5 7 J x 16", page 252	45	No	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89
	Modification	235/45 R 17 94V	7 1/2 J x 17 , refer to ⇒ "3.10.7 7 1/2 J x 17", page 254	47	No	Volkswagen recom- mended tire brands:
		235/40 R 18 91V* ⇒ page 246	8 J x 18 , refer to ⇒ "3.10.8 8 J x 18", page 256	44	No	♦ Summer tires, re- fer to ⇒ "1.15.9 Eos, from MY 2006", page 62 ♦ All-season tires, refer to ⇒ "1.16.8 Eos, from MY 2006", page 70 ♦ Winter tires, refer to ⇒ "1.17.9 Eos, from MY 2006", page 75
	Winter Tires	205/55 R 16 91T/H	6 1/2 J x 16 , refer to ⇒ "3.10.4 6 1/2 J x 16", page 252	42	Yes	
		205/50 R 17 93T/H	6 x 17 , refer to ⇒ "3.10.6 6 J x 17", page 254	45	Yes	* Tires 235/40 R 18 on rims 8 J x 18 ET 44 are permitted only if the conditions listed are fulfilled! Refer to ⇒ page 257
1.6L 85 kW; 2.0L 110 kW Gasoline en- gine;	Standard Tires	215/55 R 16 93V	7 J x 16, re- fer to ⇒ "3.10.5 7 J x 16", page 252	45	No	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Modification	235/45 R 17 94V	7 ¹ / ₂ J x 17, refer to ⇒ "3.10.7 71/2 J x 17", page 254	47	No	
		235/40 R 18 91V* ⇒ page 246	8 J x 18, re- fer to ⇒ "3.10.8 8 J x 18", page 256	44	No	
	Winter Tires	205/55 R 16 91T/H	6 ¹ / ₂ J x 16, refer to ⇒ "3.10.4 61/2 J x 16", page 252	42	Yes	
		205/50 R 17 89T/H	6 x 17, refer to ⇒ "3.10.6 6 J x 17", page 254	45	Yes	
2.0L 147 kW Gasoline engine	Standard Tires	215/55 R 16 93W	7 J x 16, re- fer to ⇒ "3.10.5 7 J x 16", page 252	45	No	
	Modification	235/45 R 17 94W	7 ¹ / ₂ J x 17, refer to ⇒ "3.10.7 71/2 J x 17", page 254	47	No	
		235/40 R 18 91W* ⇒ page 246	8 J x 18, re- fer to ⇒ "3.10.8 8 J x 18", page 256	44	No	
	Winter Tires	205/55 R 16 91T/H	6 ¹ / ₂ J x 16, refer to ⇒ "3.10.4 61/2 J x 16", page 252	42	Yes	
		205/50 R 17 93T/H	6 x 17, refer to ⇒ "3.10.6 6 J x 17", page 254	45	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .




3.10.2 Eos, Type 1F, MY 2007 through MY 2010

Parts certificate 3541/09

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number: e1*2001/116*0349*04 through
e1*2001/116*0349*12

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Offset (ET) in mm	Snow Chains	Comments
2.0L 103 kW Diesel engine	Standard Tires	215/55 R 16 93H	7 J x 16, refer to ⇒ "3.10.5 7 J x 16", page 252	45	No	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, refer to ⇒ "2.13 Snow Chains", page 89
	Modification	205/55 R 16 91H	6 1/2 J x 16, refer to ⇒ "3.10.4 6 1/2 J x 16", page 252	42	Yes	Volkswagen recommended tire brands:
		235/45 R 17 94H	7 1/2 J x 17, refer to ⇒ "3.10.7 7 1/2 J x 17", page 254	47	No 	♦ Summer tires, refer to ⇒ "1.15.9 Eos, from MY 2006", page 62 ♦ All-season tires, refer to ⇒ "1.16.8 Eos, from MY 2006", page 70 ♦ Winter tires, refer to ⇒ "1.17.9 Eos, from MY 2006", page 75
		235/40 R 18 91H* ⇒ page 248	8 J x 18, refer to ⇒ "3.10.8 8 J x 18", page 256	44	No	* Tires 235/40 R 18 on rims 8 J x 18 ET 44 are permitted only if the conditions listed are fulfilled! Refer to ⇒ page 257
	Winter Tires	205/55 R 16 91T/H	6 1/2 J x 16, refer to ⇒ "3.10.4 6 1/2 J x 16", page 252	42	Yes	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		205/50 R 17 93T/H	6 x 17, refer to ⇒ "3.10.6 6 J x 17", page 254	45	Yes	
1.4L 90 kW 1.6L 85 kW; Gasoline en- gine;	Standard Tires	215/55 R 16 93H	7 J x 16, re- fer to ⇒ "3.10.5 7 J x 16", page 252	45	No	
	Modification	205/55 R 16 91H	6 ¹ / ₂ J x 16, re- fer to ⇒ "3.10.4 61/2 J x 16", page 252	42	Yes	
		235/45 R 17 94H	7 ¹ / ₂ J x 17, re- fer to ⇒ "3.10.7 71/2 J x 17", page 254	47	No	
		235/40 R 18 91H* ⇒ page 249	8 J x 18, re- fer to ⇒ "3.10.8 8 J x 18", page 256	44	No	* Tires 235/40 R 18 on rims 8 J x 18 ET 44 are permitted only if the conditions listed are fulfilled! Refer to ⇒ page 257
	Winter Tires	205/55 R 16 91T/H	6 ¹ / ₂ J x 16, re- fer to ⇒ "3.10.4 61/2 J x 16", page 252	42	Yes	
		205/50 R 17 89T/H	6 x 17, refer to ⇒ "3.10.6 6 J x 17", page 254	45	Yes	
2.0L 110 kW 1.4L 118 kW Gasoline engine	Standard Tires	215/55 R 16 93V	7 J x 16, re- fer to ⇒ "3.10.5 7 J x 16", page 252	45	No	
	Modification	205/55 R 16 91V	6 ¹ / ₂ J x 16, re- fer to ⇒ "3.10.4 61/2 J x 16", page 252	42	Yes	
		235/45 R 17 94V	7 ¹ / ₂ J x 17, re- fer to ⇒ "3.10.7 71/2 J x 17", page 254	47	No	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		235/40 R 18 91V* ⇒ page 250	8 J x 18, refer to ⇒ "3.10.8 8 J x 18", page 256	44	No	* Tires 235/40 R 18 on rims 8 J x 18 ET 44 are permitted only if the conditions listed are fulfilled! Refer to ⇒ page 257
	Winter Tires	205/55 R 16 91T/H	6 1/2 J x 16, refer to ⇒ "3.10.4 61/2 J x 16", page 252	42	Yes	
		205/50 R 17 89T/H	6 x 17, refer to ⇒ "3.10.6 6 J x 17", page 254	45	Yes	
2.0L 147 kW; 2.0L 155 kW Gasoline engine	Standard Tires	215/55 R 16 93V	7 J x 16, refer to ⇒ "3.10.5 7 J x 16", page 252	45	No	* Tires 235/40 R 18 on rims 8 J x 18 ET 44 are permitted only if the conditions listed are fulfilled! Refer to ⇒ page 257
	Modification	205/55 R 16 91V	6 1/2 J x 16, refer to ⇒ "3.10.4 61/2 J x 16", page 252	42	Yes	
		235/45 R 17 94V	7 1/2 J x 17, refer to ⇒ "3.10.7 71/2 J x 17", page 254	47	No	
		235/40 R 18 91V* ⇒ page 250	8 J x 18, refer to ⇒ "3.10.8 8 J x 18", page 256	44	No	
	Winter Tires	205/55 R 16 91T/H	6 1/2 J x 16, refer to ⇒ "3.10.4 61/2 J x 16", page 252	42	Yes	
		205/50 R 17 93T/H	6 x 17, refer to ⇒ "3.10.6 6 J x 17", page 254	45	Yes	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
3.2L 184 kW Gasoline engine	Standard Tires	235/45 R 17 94W	7 ¹ / ₂ J x 17, refer to ⇒ "3.10.7 71/2 J x 17", page 254	47	No	** 16-inch rims do not fit vehicles equipped with 17-inch brakes (brake disc diameter: 345 mm) * Tires 235/40 R 18 on rims 8 J x 18 ET 44 are permitted only if the conditions listed are fulfilled! Refer to ⇒ page 257
	Modification	205/55 R 16 91W** ⇒ page 251	6 ¹ / ₂ J x 16, refer to ⇒ "3.10.4 61/2 J x 16", page 252	42	Yes	
		215/55 R 16 93W** ⇒ page 251	7 J x 16, re- fer to ⇒ "3.10.5 7 J x 16", page 252	45	No	
		235/40 R 18 95W* ⇒ page 251	8 J x 18, re- fer to ⇒ "3.10.8 8 J x 18", page 256	44	No	
	Winter Tires	205/50 R 17 93T/H/V	6 J x 17, re- fer to ⇒ "3.10.6 6 J x 17", page 254	45	Yes	
3.6L 191 kW Gasoline engine	Standard Tires	235/45 R 17 94W	7 ¹ / ₂ J x 17, refer to ⇒ "3.10.7 71/2 J x 17", page 254	47	No	* Tires 235/40 R 18 on rims 8 J x 18 ET 44 are permitted only if the conditions listed are fulfilled! Refer to ⇒ page 257
	Modification	235/40 R 18 95W* ⇒ page 251	8 J x 18, re- fer to ⇒ "3.10.8 8 J x 18", page 256	44	No	
	Winter Tires	205/50 R 17 93T/H/V	6 J x 17, re- fer to ⇒ "3.10.6 6 J x 17", page 254	45	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.10.3 Eos Wheel Allocation, Type 1F MY 2006 through MY 2010

Explanatory notes of indications on disc wheels, refer to
⇒ "1.11.2 Disc Wheels, Identification", page 45 .



Wheel bolt tightening specifications, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5

3.10.4 6¹/₂ J x 16



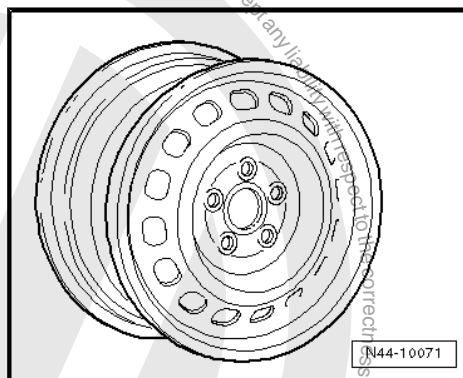
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 246](#) .

3C0 601 027 H - Wheel/tire combination. Refer to ⇒ [page 246](#)

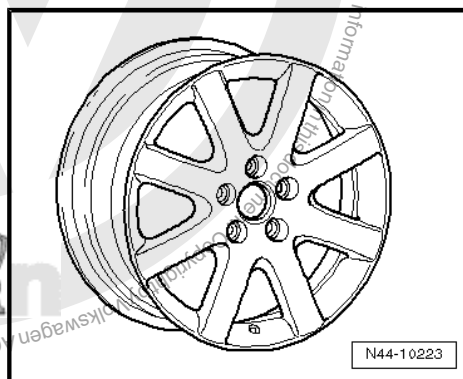
Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	650

Winter Tire



3C0 601 025 F - Wheel/tire combination. Refer to ⇒ [page 246](#)

Dimension:	6 ¹ / ₂ J x 16
Offset in mm:	42
Wheel load in kg:	650



3.10.5 7 J x 16



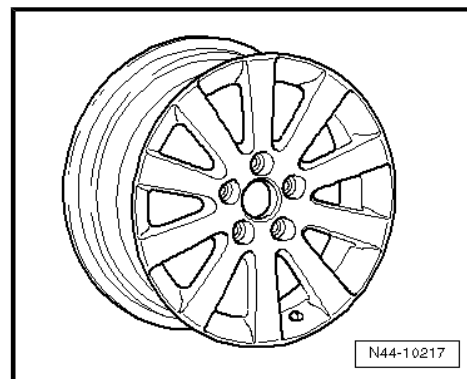
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 246](#) .



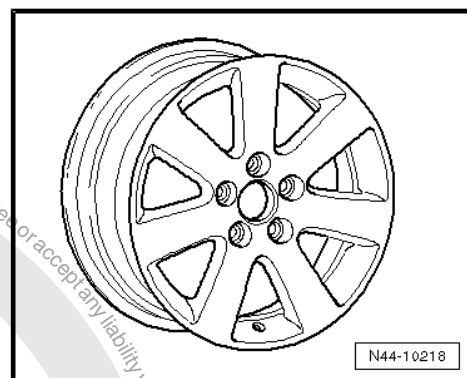
3C0 601 025 - Wheel/tire combination. Refer to ➤ page 246

Dimension:	7 J x 16
Offset in mm:	45
Wheel load in kg:	650



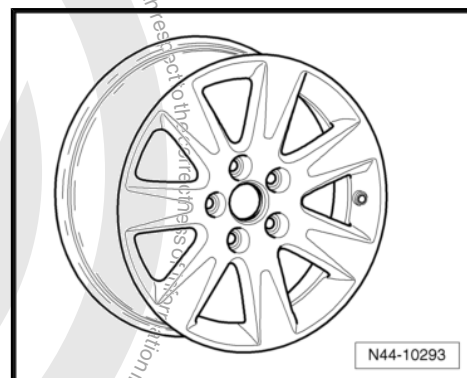
3C0 601,025 A - Wheel/tire combination. Refer to ➤ page 246

Dimension:	7 J x 16
Offset in mm:	45
Wheel load in kg:	650



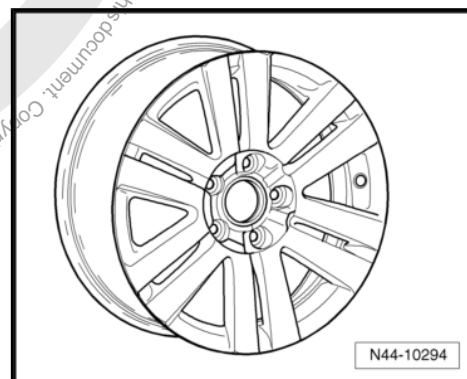
3C0 601 025 AE - Wheel/tire combination. Refer to ➤ page 246

Dimension:	7 J x 16
Offset in mm:	45
Wheel load in kg:	650



3C0 601 025 AF - Wheel/tire combination. Refer to ➤ page 246

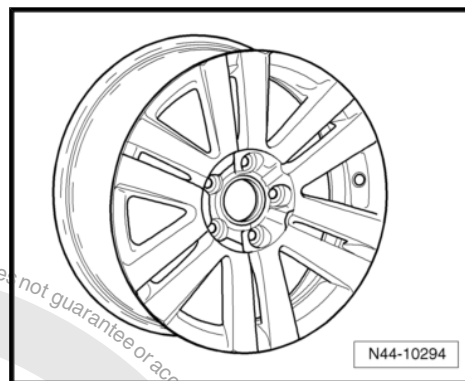
Dimension:	7 J x 16
Offset in mm:	45
Wheel load in kg:	650





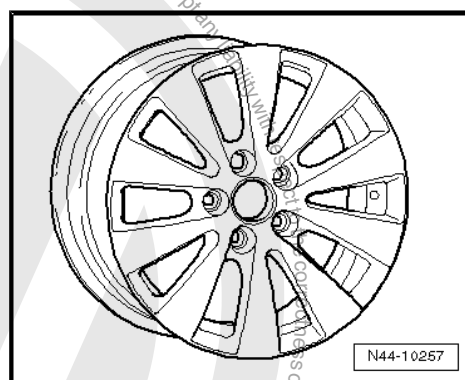
3C0 601,025 B - Wheel/tire combination. Refer to ➔ page 246

Dimension:	7 J x 16
Offset in mm:	45
Wheel load in kg:	650



3C0 601 025 C - Wheel/tire combination. Refer to ➔ page 246

Dimension:	7 J x 16 EH2, refer to ➔ "1.11.2 Disc Wheels, Identification", page 45 .
Offset in mm:	45
Wheel load in kg:	650



3.10.6 6 J x 17



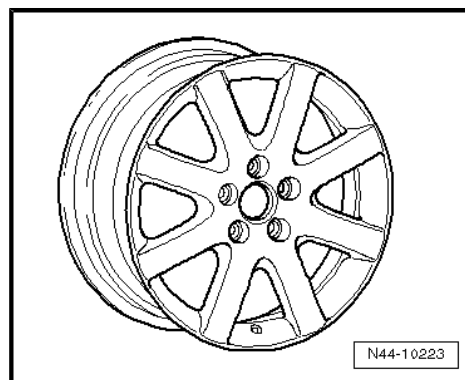
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 246 .

Winter Tire

3C0 601 025 M - Wheel/tire combination. Refer to ➔ page 246

Dimension:	6 J x 17
Offset in mm:	45
Wheel load in kg:	650



3.10.7 7 1/2 J x 17



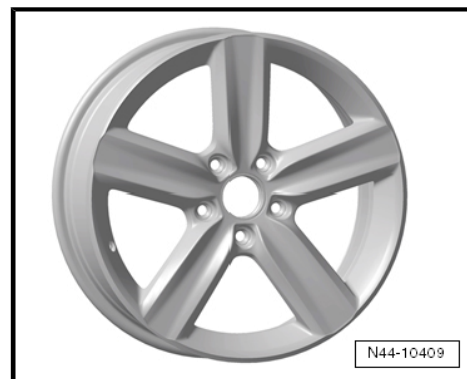
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 246 .



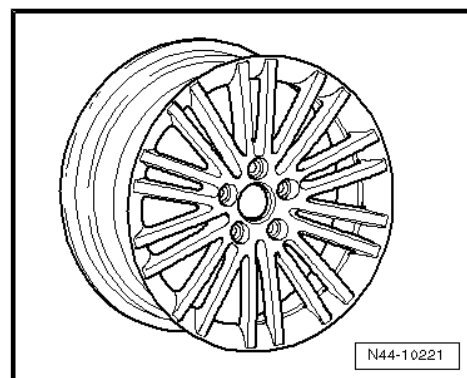
3C0 601 025 BB - Wheel/tire combination. Refer to ➤ page 246

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	47
Wheel load in kg:	650



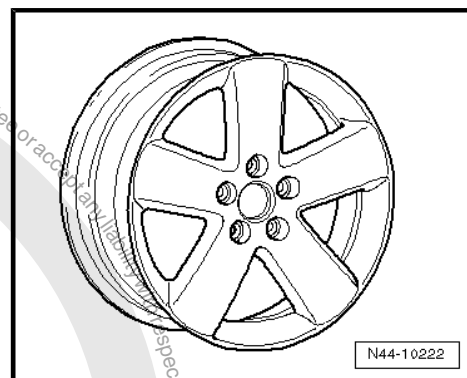
3C0 601 025 D - Wheel/tire combination. Refer to ➤ page 246

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	47
Wheel load in kg:	650



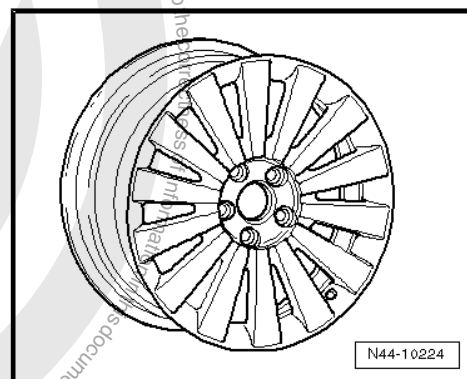
3C0 601 025 E - Wheel/tire combination. Refer to ➤ page 246

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	47
Wheel load in kg:	650



3C0 601 025 G - Wheel/tire combination. Refer to ➤ page 246

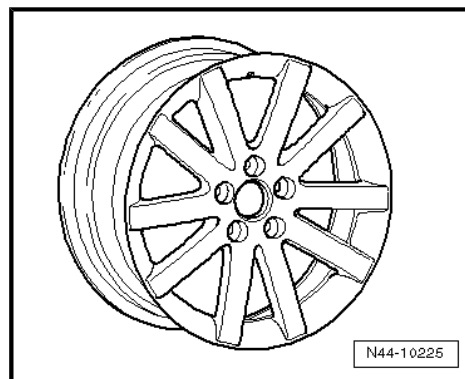
Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	47
Wheel load in kg:	650





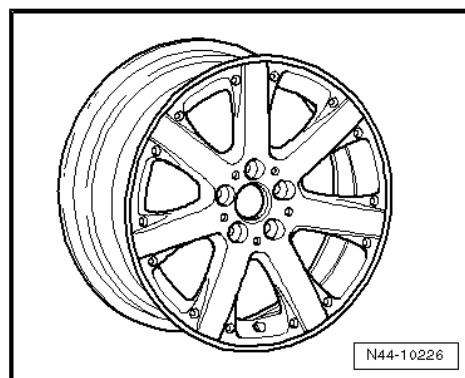
3C0 601,025 J - Wheel/tire combination. Refer to ➤ page 246

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	47
Wheel load in kg:	650



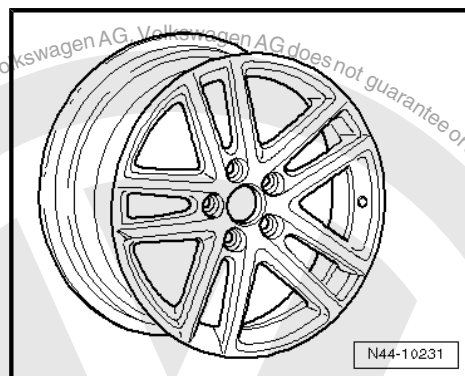
3C0 601 025 K - Wheel/tire combination. Refer to ➤ page 246

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	47
Wheel load in kg:	650



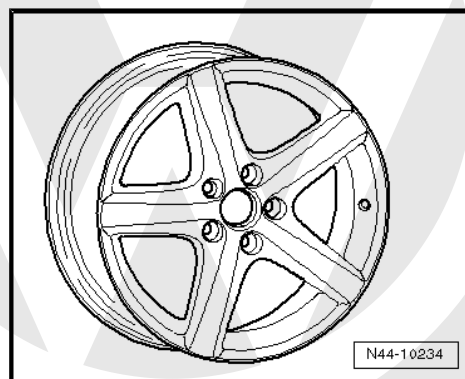
3C0 601 025 R - Wheel/tire combination. Refer to ➤ page 246

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	47
Wheel load in kg:	650



3C0 601 025 S, 3C0 601 025 AQ- wheel/tire combination. Refer to ➤ page 246

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	47
Wheel load in kg:	650



3.10.8 8 J x 18



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 246 .



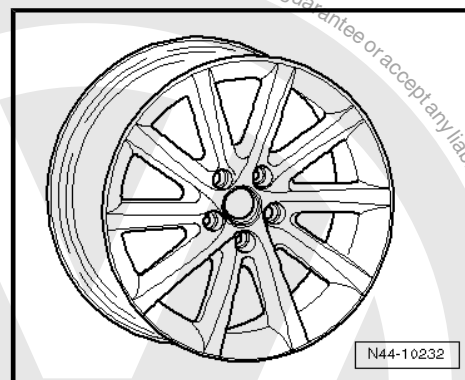
Caution

It is possible to mount 8 J x 18 wheels only under the following conditions:

- *Either the series-production suspension for 18" wheels (Pr. no. front axle G07; rear axle 1JK) - see service booklet/data sheet - or spring travel limiters with Vortex part number 000.071.501/A must be installed on the front and rear axle. In both cases, the camber on the front axle must be set to $-1^{\circ}45'$.*
- *In addition, wheel housing enlargements (FLAPS) must be installed, except in Germany - there, the discontinuation of wheel housing enlargements (FLAPS) is possible with TÜV certificate no. 1342/06. Refer to ⇒ "1.2.3 Additional Wheel Housing Enlargement, FLAPS", page 4*

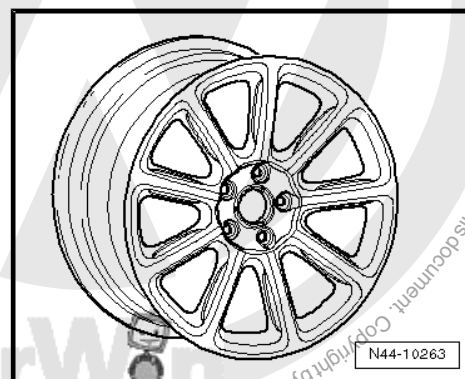
3C0 601 025 AA, 3C0 601 025 AB - wheel/tire combination. Refer to ⇒ [page 246](#)

Dimension:	8 J x 18
Offset in mm:	44
Wheel load in kg:	650



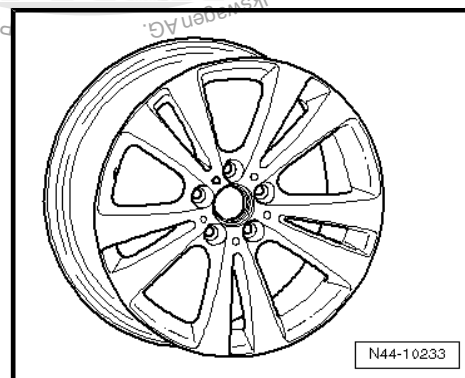
3C0 601 025 AC- Wheel/tire combination. Refer to ⇒ [page 246](#)

Dimension:	8 J x 18
Offset in mm:	44
Wheel load in kg:	650



3C0 601 025 T, 3C0 601 025 AN - Tire/wheel combination. Refer to ⇒ [page 246](#)

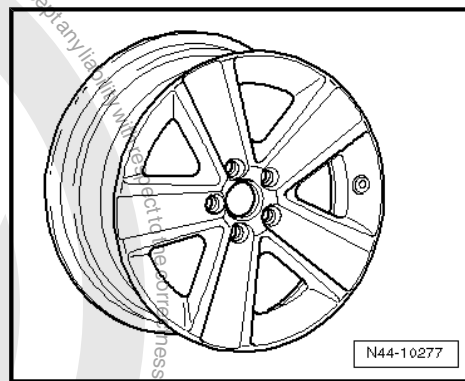
Dimension:	8 J x 18
Offset in mm:	44
Wheel load in kg:	650





3C0 601 025 AP - wheel/tire combination. Refer to ➔ page 246

Dimension:	8 J x 18
Offset in mm:	44
Wheel load in kg:	650



3.11 Passat CC, from MY 2009

➔ **"3.11.1 Passat CC, Sales Type 357, MY 2009", page 259**

➔ **"3.11.2 Passat CC, Sales Type 357, MY 10 through MY 11", page 261**

➔ **"3.11.3 Passat CC Wheel Allocation, Sales Type 357, Model Year 2009 through 2011", page 262**

➔ **"3.11.4 6 1/2 J x 17", page 263**

➔ **"3.11.5 8 J x 17", page 263**

➔ **"3.11.6 8 J x 18", page 264**

➔ **"3.11.7 8 J x 19", page 265**

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Vortex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.11.1 Passat CC, Sales Type 357, MY 2009



Caution

The Passat CC is listed according to the sales type and not to the type approval.

The type approval and the associated type approval number is listed as follows.

Passat CC, Type Approval 3CC

Supplement to parts certificate 8106807190

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number: e1*2001/116*0468*00 through e1*2001/116*0468*02

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
1.8L 118 kW; Gasoline engine 2.0L 100 kW TDI 2.0L 103 kW TDI 2.0L 125 kW TDI Diesel engines	Standard Tires	235/45 R 17 94V	8 J x 17 ⇒ "3.11.5 8 J x 17", page 263	41	No	General information about: ◆ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ◆ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
2.0L 147 kW; 3.6L 220 kW Gasoline engine	Modification	235/40 R 18 95V	8 J x 18 , refer to ⇒ "3.11.6 8 J x 18", page 264	41	No	Volkswagen recom- mended tire brands: ♦ Summer tires, re- fer to ⇒ "1.15.12 Pas- sat CC, from MY 2009", page 65 ♦ All-season tires, refer to ⇒ "1.16.11 Pas- sat CC, from MY 2009", page 71 ♦ Winter tires, refer to ⇒ "1.17.12 Pas- sat CC, from MY 2009", page 77
	Winter Tires	205/50 R 17 93H/V	6 ¹ / ₂ J x 17 , refer to ⇒ "3.11.4 61/ 2 J x 17", page 263	39	Yes	
	Standard Tires	235/45 R 17 94W	8 J x 17, refer to ⇒ "3.11.5 8 J x 17", page 263	41	No	♦ * A 235/40 R 18 95 W tire on a 8 J x 18 ET 44 rim can be used in place of a 235/40 R 18 95Y tire on a 8 J x 18 ET 44 rim. Refer to "approval 95W tires Passat CC" from the Federal Motor Vehicle Of- fice. The parts certificate can be found in Volkswa- gen ServiceNet under Accesso- ries/Tires, Wheels and Tires, Wheel and Tire Guide.
	Modification	235/40 R 18 95Y* ⇒ page 260	8 J x 18, refer to ⇒ "3.11.6 8 J x 18", page 264	41	No	
	Winter Tires	205/50 R 17 93H/V	6 ¹ / ₂ J x 17, refer to ⇒ "3.11.4 61/ 2 J x 17", page 263	39	Yes	



Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.11.2 Passat CC, Sales Type 357, MY 10 through MY 11



Caution

The Passat CC is listed according to the sales type and not to the type approval.

The type approval and the associated type approval number is listed as follows.

Passat CC, Type Approval 3CC

Supplement to parts certificate 8106807190

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number: e1*2001/116*0468*03 through e1*2001/116*0468*07

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Offset (ET) in mm	Snow Chains	Comments
1.8L 118 kW; Gasoline engine 2.0L 100 kW TDI 2.0L 103 kW TDI 2.0L 105 kW TDI 2.0L 125 kW TDI Diesel engines	Standard Tires	235/45 R 17 94V	8 J x 17, refer to ⇒ "3.11.5 8 J x 17" , page 263	41	No	General information about: ◆ Winter tires, refer to ⇒ "2.8 Winter Tires" , page 85 ◆ Snow chains, refer to ⇒ "2.13 Snow Chains" , page 89
	Modification	235/40 R 18 95V	8 J x 18, refer to ⇒ "3.11.6 8 J x 18" , page 264	41	No	Volkswagen recommended tire brands: ◆ Summer tires, refer to ⇒ "1.15.12 Passat CC, from MY 2009" , page 65 ◆ All-season tires, refer to ⇒ "1.16.11 Passat CC, from MY 2009" , page 71 ◆ Winter tires, refer to ⇒ "1.17.12 Passat CC, from MY 2009" , page 77



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
2.0L 147 kW; 3.6L 220 kW Gasoline engine	Winter Tires	235/35 R 19 91Y* ⇒ page 262	8 J x 19 refer to ⇒ "3.11.7 8 J x 19", page 265	41	No	♦ * A 235/35 R 19 91Y tire on a 8 J x 19 ET 41 rim is only permitted in vehi- cles with a sport chassis.
		205/50 R 17 93H/V	6 1/2 J x 17, refer to ⇒ "3.11.4 61/ 2 J x 17", page 263	39	Yes	
	Standard Tires	235/45 R 17 94W	8 J x 17, refer to ⇒ "3.11.5 8 J x 17", page 263	41	No	
	Modification	235/40 R 18 95W	8 J x 18, refer to ⇒ "3.11.6 8 J x 18", page 264	41	No	
		235/35 R 19 91Y* ⇒ page 262	8 J x 19, refer to ⇒ "3.11.7 8 J x 19", page 265	41	No	
	Winter Tires	205/50 R 17 93H/V	6 1/2 J x 17, refer to ⇒ "3.11.4 61/ 2 J x 17", page 263	39	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.11.3 Passat CC Wheel Allocation, Sales Type 357, Model Year 2009 through 2011

Passat CC, Type Approval 3CC

Explanatory notes of indications on disc wheels, refer to
⇒ "1.11.2 Disc Wheels, Identification", [page 45](#) .

Wheel bolt tightening specifications, refer to ⇒ Suspension,
Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5



3.11.4 6¹/₂ J x 17



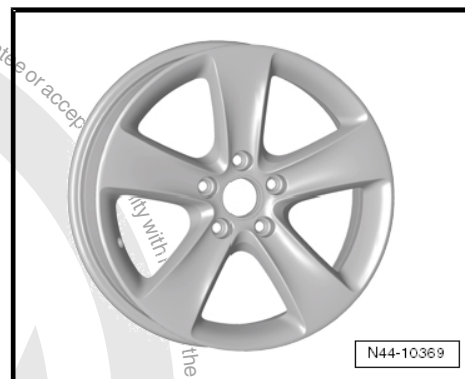
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 259](#).

Winter Tire

3C8 601 025 F- wheel/tire combination. Refer to ➔ [page 260](#)

Dimension:	6 ¹ / ₂ J x 17
Offset in mm:	39
Wheel load in kg:	625



3.11.5 8 J x 17

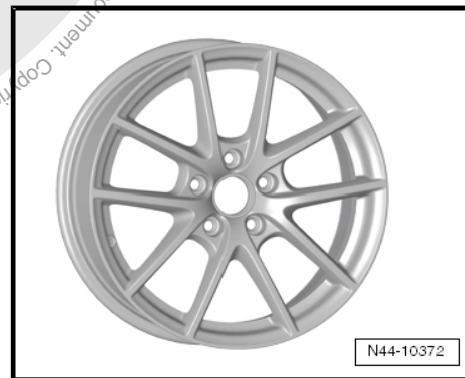


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 259](#).

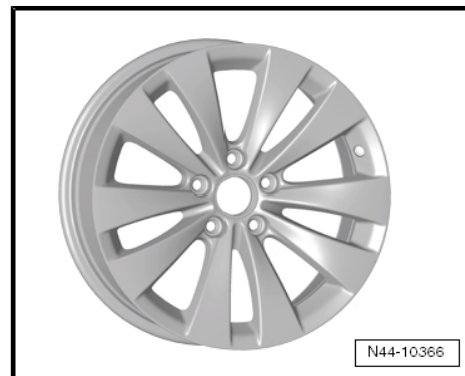
3C8 601 025 - tire/wheel combination. Refer to ➔ [page 259](#)

Dimension:	8 J x 17
Offset in mm:	41
Wheel load in kg:	625



3C8 601 025 A - wheel/tire combination. Refer to ➔ [page 259](#)

Dimension:	8 J x 17
Offset in mm:	41
Wheel load in kg:	625





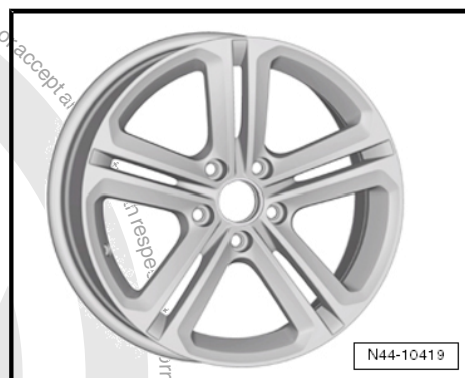
3C8 601,025 K - wheel/tire combination. Refer to ➔ [page 259](#)

Dimension:	8 J x 17
Offset in mm:	41
Wheel load in kg:	625



1K8 601 025 D- wheel/tire combination. Refer to ➔ [page 259](#)

Dimension:	8 J x 17
Offset in mm:	41
Wheel load in kg:	650



3.11.6 8 J x 18



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 259](#).

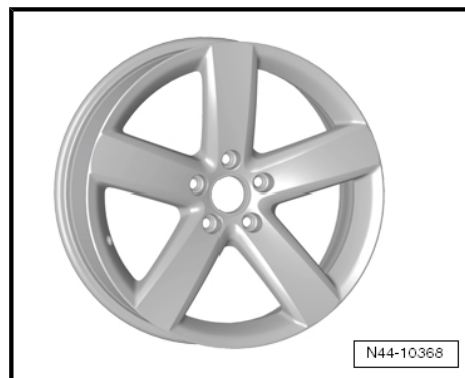
3C8 601 025 D - wheel/tire combination. Refer to ➔ [page 260](#)

Dimension:	8 J x 18
Offset in mm:	41
Wheel load in kg:	625



3C8 601 025 E - wheel/tire combination. Refer to ➔ [page 260](#)

Dimension:	8 J x 18
Offset in mm:	41
Wheel load in kg:	625





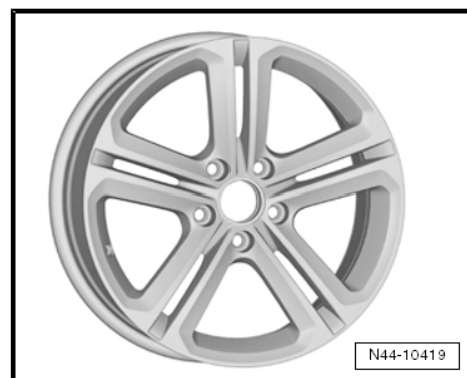
3C8 601 025 G - wheel/tire combination. Refer to ➔ page 260

Dimension:	8 J x 18
Offset in mm:	41
Wheel load in kg:	650



1K8 601 025 E - wheel/tire combination. Refer to ➔ page 260

Dimension:	8 J x 18
Offset in mm:	41
Wheel load in kg:	650



3.11.7 8 J x 19



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 259.



WARNING

** A 235/35 R 19 91Y tire on a 8 J x 19 ET 41 rim is only permitted in vehicles with a sport chassis.*

1K8 601 025 C - wheel/tire combination. Refer to ➔ page 262

Dimension:	8 J x 19
Offset in mm:	41
Wheel load in kg:	650





3.12 Phaeton, from MY 2003

⇒ ["3.12.1 Phaeton, Type 3D, MY 2003 through MY 2009, Short and Long Wheel Base", page 267](#)

⇒ ["3.12.2 Phaeton, Type 3D and Type 3d, MY 10 through MY 11, Short and Long Wheel Base", page 270](#)

⇒ ["3.12.3 Wheel Allocation, Phaeton, Type 3D and Type 3d, MY 10 through MY 11, Short and Long Wheel Base", page 273](#)

⇒ ["3.12.4 71/2 J x 16", page 273](#)

⇒ ["3.12.5 71/2 J x 17", page 274](#)

⇒ ["3.12.6 71/2 J x 18", page 275](#)

⇒ ["3.12.7 81/2 J x 18", page 276](#)

⇒ ["3.12.8 81/2 J x 19 ET 38", page 278](#)

⇒ ["3.12.9 81/2 J x 19 ET 45", page 278](#)

⇒ ["3.12.10 9 J x 19 ET 35", page 279](#)

⇒ ["3.12.11 9 J x 19 ET 40", page 279](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Votex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.



3.12.1 Phaeton, Type 3D, MY 2003 through MY 2009, Short and Long Wheel Base


Supplement to parts certificate 8106807143

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number: e1*98/14*0189*00 to e1*98/14*0189*03

Type Approval Number: e1*2001/116*0189*04 to e1*2001/116*0189*14

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
V6 3.2L 177 kW Front Wheel Drive	Standard Tires	235/60 R 16 100Y	7 ¹ / ₂ J x 16 , refer to ⇒ "3.12.4 71/ 2 J x 16", page 273	40	Yes	Snow chains: Only snow chains listed in the Electronic Parts Catalog (ET- KA) are permitted.
	Modification	235/55 R 17 99Y	7 ¹ / ₂ J x 17 , refer to ⇒ "3.12.5 71/ 2 J x 17", page 274	40	Yes	
		235/50 R 18 101Y	7 ¹ / ₂ J x 18 , refer to ⇒ "3.12.6 71/ 2 J x 18", page 275	40	Yes	
		255/45 R 18 103Y	8 ¹ / ₂ J x 18 , refer to ⇒ "3.12.7 81/ 2 J x 18", page 276	45	No	
		255/40 R 19 100Y	8 ¹ / ₂ J x 19 , refer to ⇒ "3.12.9 81/ 2 J x 19 ET 45", page 278	45	No	
						General information about: ◆ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ◆ Snow chains, refer to ⇒ "2.13 Snow Chains", page 89 Volkswagen recom- mended tire brands: ◆ Summer tires, re- fer to ⇒ "1.15.13 Phae- ton, from MY 2003", page 65 ◆ All-season tires, refer to ⇒ "1.16.12 Phae- ton, from MY 2003", page 71 ◆ Winter tires, refer to ⇒ "1.17.13 Phae- ton, from MY 2003", page 77



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		255/40 R 19 100Y	9 J x 19 refer to ⇒ "3.12.11 9 J x 19 ET 40", page 279	40	No	Winter tires with "V-rating", refer to ⇒ "2.9 Winter Tires with Speed Rating V", page 86
		275/40 R 19 106Y* ⇒ page 268	9 J x 19 refer to ⇒ "3.12.10 9 J x 19 ET 35", page 279	35	No	* 275/40 R 19 105Y tires are only permitted on 9 J x 19 ET 35 rims if the conditions listed are met. Refer to ⇒ page 279
	Winter Tires	235/60 R 16 100H/V	7 ¹ / ₂ J x 16, refer to ⇒ "3.12.4 71/ 2 J x 16", page 273	40	Yes	
		235/55 R 17 99H/V	7 ¹ / ₂ J x 17, refer to ⇒ "3.12.5 71/ 2 J x 17", page 274	40	Yes	
V6 3.2L 177 kW All Wheel Drive;	Standard Tires	235/55 R 17 99Y	7 ¹ / ₂ J x 17, refer to ⇒ "3.12.5 71/ 2 J x 17", page 274	40	Yes	
V6 TDI 3.0L 165 kW; V6 TDI 3.0L 171 kW; V6 TDI 3.0L 176 kW; V8 4.2L 246 kW	Modification	235/50 R 18 101Y	7 ¹ / ₂ J x 18, refer to ⇒ "3.12.6 71/ 2 J x 18", page 275	40	Yes	Fitting tires, refer to ⇒ page 270 : Prior to fitting tires, read fitting instructions in ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .
		255/45 R 18 103Y	8 ¹ / ₂ J x 18, refer to ⇒ "3.12.7 81/ 2 J x 18", page 276	45	No	On vehicles with tire pressure monitoring system, the tire pressure must be re- saved or adapted after each change from summer to winter tires or vice versa, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		255/40 R 19 100Y	8 ¹ / ₂ J x 19, refer to ⇒ "3.12.9 81/ 2 J x 19 ET 45", page 278	45	No	* 275/40 R 19 105Y tires are only permit- ted on 9 J x 19 ET 35 rims if the conditions lis- ted are met. Refer to ⇒ page 279
		255/40 R 19 100Y	9 J x 19, refer to ⇒ "3.12.11 9 J x 19 ET 40", page 279	40	No	
		275/40 R 19 106Y* ⇒ page 269	9 J x 19, refer to ⇒ "3.12.10 9 J x 19 ET 35", page 279	35	No	
	Winter Tires	235/55 R 17 99H/V	7 ¹ / ₂ J x 17, refer to ⇒ "3.12.5 71/ 2 J x 17", page 274	40	Yes	
		235/50 R 18 101H/V	7 ¹ / ₂ J x 18, refer to ⇒ "3.12.6 71/ 2 J x 18", page 275	40	Yes	
W12 6.0L 309 kW; W12 6.0L 331 kW Gasoline engines	Standard Tires	235/50 R 18 101Y	7 ¹ / ₂ J x 18, refer to ⇒ "3.12.6 71/ 2 J x 18", page 275	40	Yes	* 275/40 R 19 105Y tires are only permit- ted on 9 J x 19 ET 35 rims if the conditions lis- ted are met. Refer to ⇒ page 279
V10 TDI 5.0L 230 kW Diesel engine	Modification	255/45 R 18 103Y	8 ¹ / ₂ J x 18, refer to ⇒ "3.12.7 81/ 2 J x 18", page 276	45	No	
		275/40 R 19 106Y* ⇒ page 269	9 J x 19, refer to ⇒ "3.12.10 9 J x 19 ET 35", page 279	35	No	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Winter Tires	235/50 R 18 101H/V	7 ¹ / ₂ J x 18, refer to "3.12.6 71/ 2 J x 18" page 275	40	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

- On vehicles with tire pressure monitor, check remaining battery service life of tire pressure sensor using Vehicle diagnosis, testing and information system - VAS5051- prior to fitting the tires

3.12.2 Phaeton, Type 3D and Type 3d, MY 10 through MY 11, Short and Long Wheel Base

Supplement to parts certificate 8106807143

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number for type 3D: e1*2001/116*0189*15
through e1*2001/116*0189*18

Type Approval Number for type 3d: DE*2007/46*0452*00

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
V6 3.6L 206 kW; V8 4.2L 246 kW Gasoline engines	Standard Tires	235/55 R 17 99Y	7 ¹ / ₂ J x 17, refer to "3.12.5 71/ 2 J x 17" page 274	40	Yes	Snow chains: Only snow chains listed in the Electronic Parts Catalog (ET-KA) are permitted.
V6 TDI 3.0L 176 kW; Diesel engine	Modification	235/50 R 18 101Y	7 ¹ / ₂ J x 18, refer to "3.12.6 71/ 2 J x 18" page 275	40	Yes	General information about: ♦ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ♦ Snow chains, refer to ⇒ "2.13 Snow Chains", page 89



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		255/45 R 18 103Y	8 ¹ / ₂ J x 18, refer to ⇒ "3.12.7 81/ 2 J x 18", page 276	45	No	Volkswagen recom- mended tire brands: ◆ Summer tires, re- fer to ⇒ "1.15.13 Phaeton, from MY 2003", page 65 ◆ All-season tires, refer to ⇒ "1.16.12 Phaeton, from MY 2003", page 71 ◆ Winter tires, refer to ⇒ "1.17.13 Phaeton, from MY 2003", page 77
		245/45 R 19 102Y	8 ¹ / ₂ J x 19, refer to ⇒ "3.12.8 81/ 2 J x 19 ET 38", page 278	38	No	Winter tires with "V- rating", refer to ⇒ "2.9 Winter Tires with Speed Rating V", page 86
		255/40 R 19 100Y	8 ¹ / ₂ J x 19, refer to ⇒ "3.12.8 81/ 2 J x 19 ET 38", page 278	38	No	
		255/40 R 19 100Y	8 ¹ / ₂ J x 19, refer to ⇒ "3.12.9 81/ 2 J x 19 ET 45", page 278	45	No	
		255/40 R 19 100Y	9 J x 19, refer to ⇒ "3.12.11 9 J x 19 ET 40", page 279	40	No	
		275/40 R 19 106Y* ⇒ page 271	9 J x 19, refer to ⇒ "3.12.10 9 J x 19 ET 35", page 279	35	No	* 275/40 R 19 105Y tires are only permit- ted on 9 J x 19 ET 35 rims if the conditions lis- ted are met. Refer to ⇒ page 279



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Winter Tires	235/55 R 17 99H/V	7 ¹ / ₂ J x 17, refer to ⇒ "3.12.5 71/ 2 J x 17", page 274	40	Yes	Fitting tires ⇒ page 273 : Prior to fitting tires, read fitting instruc- tions in ⇒ Suspen- sion, Wheels, Steer- ing; Rep. Gr. 44 ; General Informa- tion .
		235/50 R 18 101H/V	7 ¹ / ₂ J x 18, refer to ⇒ "3.12.6 71/ 2 J x 18", page 275	40	Yes	On vehicles with tire pressure monitoring system, the tire pres- sure must be re- saved or adapted af- ter each change from summer to winter tires or vice versa. Refer to ⇒ Suspen- sion, Wheels, Steer- ing; Rep. Gr. 44 ; General Informa- tion .
W12 6.0L 331 kW Gasoline engine with 18 inch steel brakes (365 mm brake rotors)	Standard Tires	235/50 R 18 101Y	7 ¹ / ₂ J x 18, refer to ⇒ "3.12.6 71/ 2 J x 18", page 275	40	Yes	
	Modification	245/45 R 19 102Y	8 ¹ / ₂ J x 19, refer to ⇒ "3.12.8 81/ 2 J x 19 ET 38", page 278	38	No	
		255/45 R 18 103Y	8 ¹ / ₂ J x 18, refer to ⇒ "3.12.7 81/ 2 J x 18", page 276	45	No	
		275/40 R 19 106Y* ⇒ page 272	9 J x 19, refer to ⇒ "3.12.10 9 J x 19 ET 35", page 279	35	No	* 275/40 R 19 105Y tires are only permit- ted on 9 J x 19 ET 35 rims if the conditions lis- ted are met. Refer to ⇒ page 279 .
	Winter Tires	235/50 R 18 101H/V	7 ¹ / ₂ J x 18, refer to ⇒ "3.12.6 71/ 2 J x 18", page 275	40	Yes	



Model/ Engine Perform- ance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
W12 6.0L 331 kW Gasoline engine with 19 inch ce- ramic brakes (380 mm brake rotors)	Standard Tires	245/45 R 19 102Y	8 1/2 J x 19, refer to <u>⇒</u> <u>"3.12.8 81/ 2 J x 19 ET 38", page 278</u>	38	Yes	
	Modification	Changes outside standard wheel/tire combinations are not permitted.				

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

- On vehicles with tire pressure monitor, check remaining battery service life of tire pressure sensor using Vehicle diagnosis, testing and information system - VAS5051- prior to fitting the tires

3.12.3 Wheel Allocation, Phaeton, Type 3D and Type 3d, MY 10 through MY 11, Short and Long Wheel Base

Explanatory notes of indications on disc wheels, refer to ⇒ "1.11.2 Disc Wheels, Identification", page 45 .

Wheel bolt tightening specifications, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	112 mm
Number of wheel bolt holes:	5

3.12.4 7 1/2 J x 16

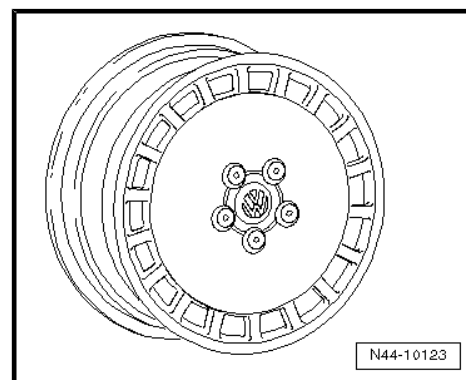
Caution
Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ page 267 .

3D0 601 025 - Wheel/tire combination. Refer to ⇒ page 267

Note

Only for vehicles up to maximum permissible axle load of 1,400 kg.

Dimension:	7 1/2 J x 16
Offset in mm:	40
Wheel load in kg:	700





3.12.5 7¹/₂ J x 17



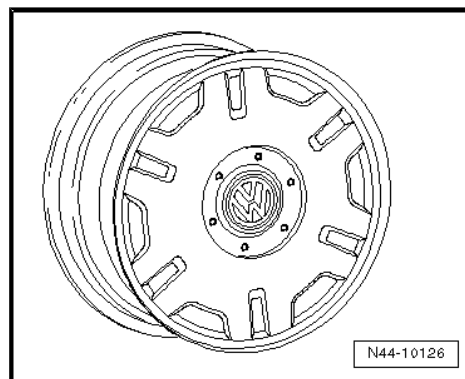
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 267](#) .

Front Wheel Drive and 4Motion

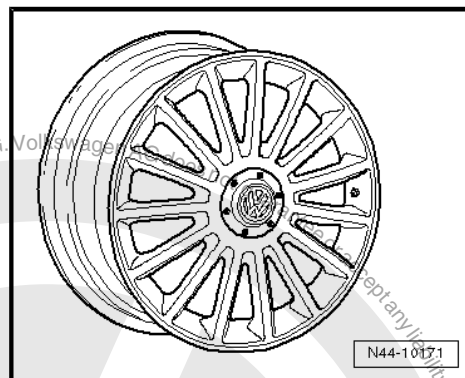
3D0 601 025 G - Wheel/tire combination. Refer to ➔ [page 267](#)

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	40
Wheel load in kg:	830



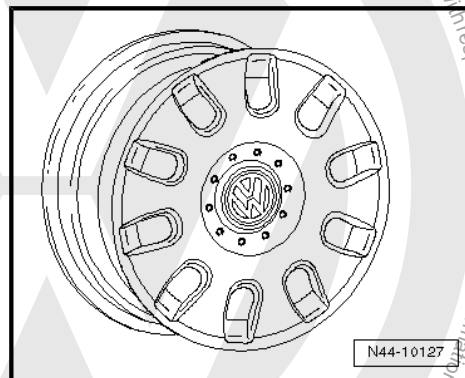
3D0 601 025 L, 3D0 601 025 AC - Wheel/tire combination. Refer to ➔ [page 267](#)

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	40
Wheel load in kg:	835



3D0 601 025 M - Wheel/tire combination. Refer to ➔ [page 267](#)

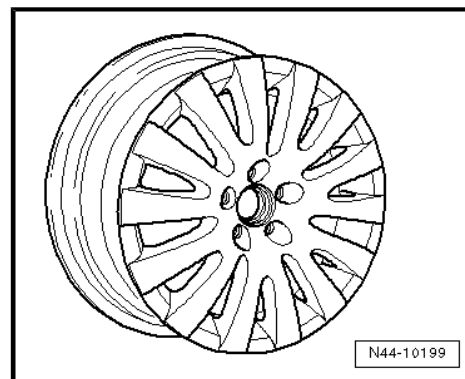
Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	40
Wheel load in kg:	835





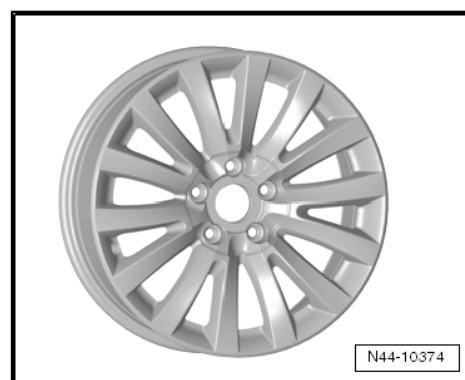
3D0 601 025 AA - Wheel/tire combination. Refer to ➤ page 267

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	40
Wheel load in kg:	840



3D0 601 025 AN - wheel/tire combination. Refer to ➤ page 267

Dimension:	7 ¹ / ₂ J x 17
Offset in mm:	40
Wheel load in kg:	840



3.12.6 7¹/₂ J x 18



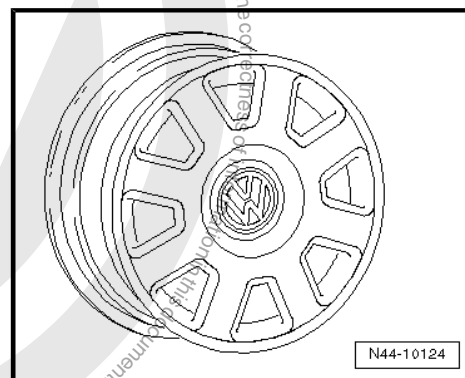
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 267.

Front Wheel Drive and 4Motion

3D0 601 025 B, 3D0 601 025 AG - Wheel/tire combination. Refer to ➤ page 267

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	40
Wheel load in kg:	835





3D0 601 025 AM - wheel/tire combination. Refer to ➔ page 267

Dimension:	7 ¹ / ₂ J x 18
Offset in mm:	40
Wheel load in kg:	840



3.12.7 8¹/₂ J x 18



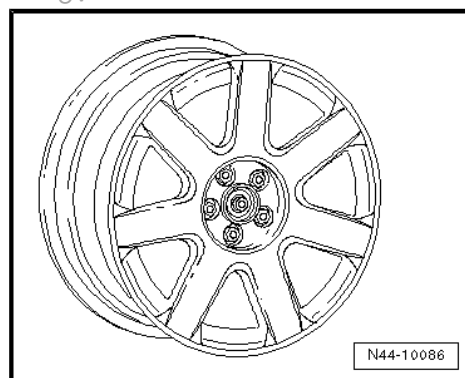
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 267.

Front Wheel Drive and 4Motion

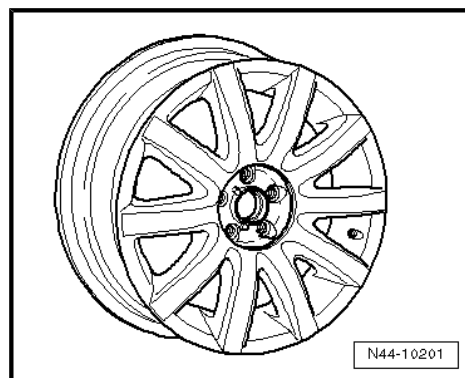
3D0 601 025 Q - Wheel/tire combination. Refer to ➔ page 267

Dimension:	8 ¹ / ₂ J x 18
Offset in mm:	45
Wheel load in kg:	835



3D0 601 025 AB - Wheel/tire combination. Refer to ➔ page 267

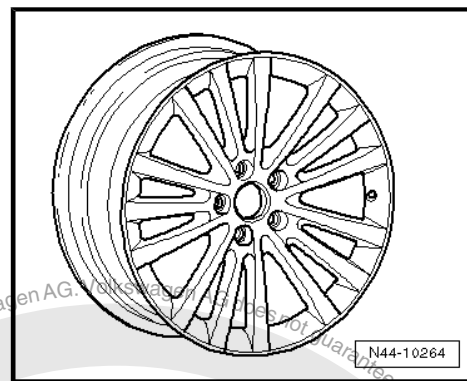
Dimension:	8 ¹ / ₂ J x 18
Offset in mm:	45
Wheel load in kg:	840





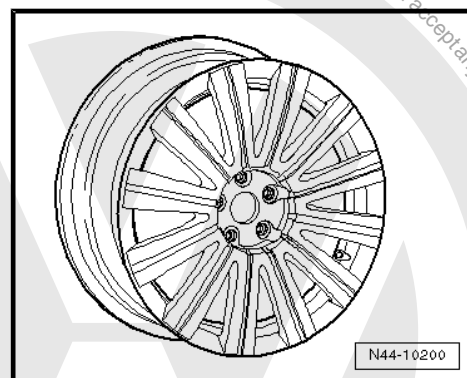
3D0 601 025 AF - Wheel/tire combination. Refer to ➤ page 267

Dimension:	8 ¹ / ₂ J x 18
Offset in mm:	45
Wheel load in kg:	840



3D0 601 025 S - Wheel/tire combination. Refer to ➤ page 267

Dimension:	8 ¹ / ₂ J x 18
Offset in mm:	45
Wheel load in kg:	840



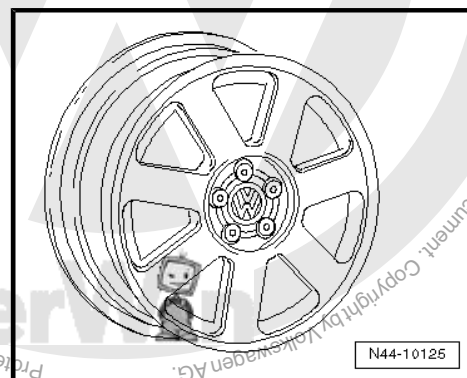
3D0 601 025 C, 3D0 601 025 AH - Wheel/tire combination. Refer to ➤ page 267



Note

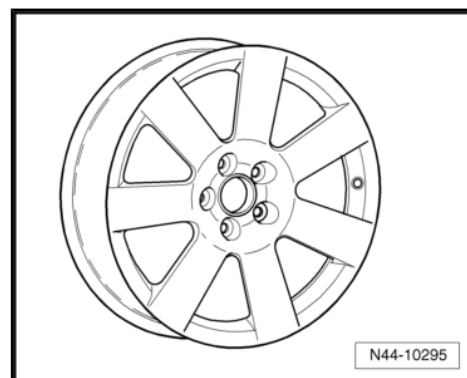
Only for vehicles up to maximum permissible axle load of 1,550 kg.

Dimension:	8 ¹ / ₂ J x 18
Offset in mm:	45
Wheel load in kg:	775



3D0 601 025 AJ - Wheel/tire combination. Refer to ➤ page 267

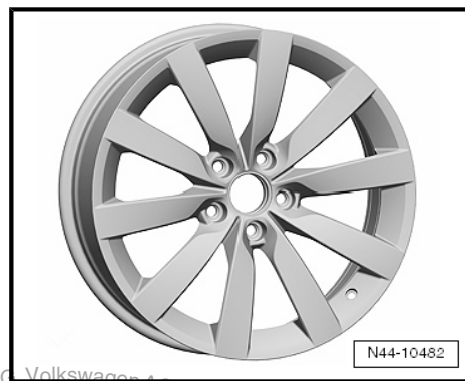
Dimension:	8 ¹ / ₂ J x 18
Offset in mm:	45
Wheel load in kg:	835





3D0 601 025 AQ - wheel/tire combination. Refer to ➔ page 267

Dimension:	8 ¹ / ₂ J x 18
Offset in mm:	45
Wheel load in kg:	800



3.12.8 8¹/₂ J x 19 ET 38

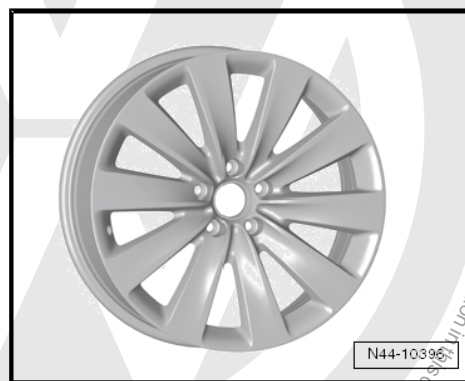


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 267.

3D0 601 025 AP - Wheel/tire combination

Dimension:	8 ¹ / ₂ J x 19
Offset in mm:	38
Wheel load in kg:	840



3.12.9 8¹/₂ J x 19 ET 45



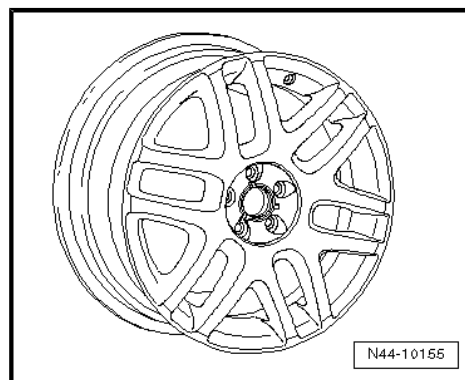
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ page 267.

Front Wheel Drive and 4Motion

3D0 601 025 J - Wheel/tire combination. Refer to ➔ page 267

Dimension:	8 ¹ / ₂ J x 19
Offset in mm:	45
Wheel load in kg:	835





3.12.10 9 J x 19 ET 35



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 267](#).



WARNING

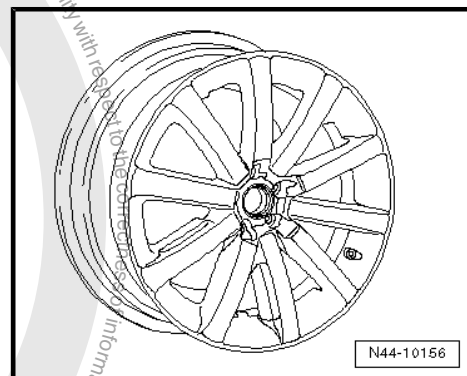
It is only possible to mount 9 J x 19 ET 35 wheels under the following conditions:

- *Mounting 9 J x 19 ET 35 wheels is only possible with TÜV certificate number 3758/07.*
- *The camber must be set to -1°08' at the front axle and -1°30' at the rear axle.*

Front Wheel Drive and 4Motion

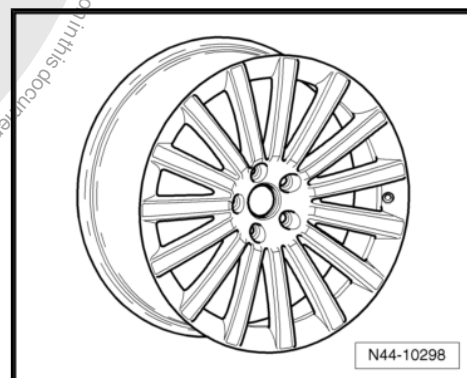
3D0 601 025 AD - Wheel/tire combination. Refer to ➔ [page 268](#)

Dimension:	9 J x 19
Offset in mm:	35
Wheel load in kg:	835



3D0 601 025 AL - Wheel/tire combination. Refer to ➔ [page 268](#)

Dimension:	9 J x 19
Offset in mm:	35
Wheel load in kg:	840



3.12.11 9 J x 19 ET 40



Caution

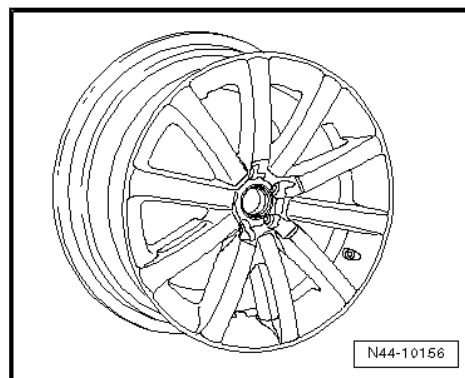
Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➔ [page 267](#).



Front Wheel Drive and 4Motion

3D0 601 025 P - Wheel/tire combination. Refer to ➔ [page 268](#)

Dimension:	9 J x 19
Offset in mm:	40
Wheel load in kg:	835



3.13 Touareg, from MY 2010

➔ ["3.13.1 Touareg, Type 7P and Type 7p, MY 10 through MY 11", page 281](#)

➔ ["3.13.2 Wheel Allocation, Touareg, Type 7P and Type 7p, MY 10 through MY 11", page 283](#)

➔ ["3.13.3 7 1/2 J x 17", page 283](#)

➔ ["3.13.4 8 J x 18", page 283](#)

➔ ["3.13.5 8 1/2 J x 19", page 284](#)

➔ ["3.13.6 9 J x 20", page 285](#)

➔ ["3.13.7 9 1/2 J x 21", page 286](#)

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Votex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.13.1 Touareg, Type 7P and Type 7p, MY 10 through MY 11


Supplement to parts certificate 8106807167

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number for type 7P: e1*2007/46*0376*00 through e1*2007/46*0376*02

Type Approval Number for type 7p: DE*2007/46*0400*00 through DE*2007/46*0400*02

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
V6 TDI 3.0L 176 kW; Diesel engine	Standard Tires	235/65 R 17,108V	7 1/2 J x 17 , refer to ⇒ "3.13.3 71/ 2 J x 17", page 283	50 	Yes	General information about: ◆ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ◆ Snow chains, refer to ⇒ "2.13 Snow Chains", page 89
V6 3.6L 206 kW Gasoline engine	Modification	255/60 R 17,106V	7 1/2 J x 17, refer to ⇒ "3.13.3 71/ 2 J x 17", page 283	50	Yes	Volkswagen recommended tire brands: ◆ Summer tires, refer to ⇒ "1.15.14 Touareg, from MY 2010", page 66 ◆ All-season tires, refer to ⇒ "1.16.13 Touareg, from MY 2010", page 71 ◆ Winter tires, refer to ⇒ "1.17.14 Touareg, from MY 2010", page 77
		255/55 R 18,109V	8 J x 18 , refer to ⇒ "3.13.4 8 J x 18", page 283	53	Yes	



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
		265/50 R 19,110V	8 ¹ / ₂ J x 19 , refer to ⇒ <u>"3.13.5 81/ 2 J x 19", page 284</u>	59	No	
		275/45 R 20,110V	9 J x 20 , refer to ⇒ <u>"3.13.6 9 J x 20", page 285</u>	57	No	
		275/40 R 21,107V	9 ¹ / ₂ J x 21 , refer to ⇒ <u>"3.13.7 91/ 2 J x 21", page 286</u>	59	No	
	Winter Tires	235/65 R 17 108T/H	7 ¹ / ₂ J x 17, refer to ⇒ <u>"3.13.3 71/ 2 J x 17", page 283</u>	50	Yes	
		255/55 R 18 109T/H/ V	8 J x 18, refer to ⇒ <u>"3.13.4 8 J x 18", page 283</u>	53	Yes	
V8 TDI 4.2L 250 kW; Diesel engine	Standard Tires	255/55 R 18 109W	8 J x 18, refer to ⇒ <u>"3.13.4 8 J x 18", page 283</u>	53	Yes	
	Modification	265/50 R 19 110W	8 ¹ / ₂ J x 19, refer to ⇒ <u>"3.13.5 81/ 2 J x 19", page 284</u>	59	No	
		275/45 R 20 110W	9 J x 20, refer to ⇒ <u>"3.13.6 9 J x 20", page 285</u>	57	No	
		275/40 R 21 107W	9 ¹ / ₂ J x 21, refer to ⇒ <u>"3.13.7 91/ 2 J x 21", page 286</u>	59	No	
	Winter Tires	255/55 R 18 109T/H/ V	8 J x 18, refer to ⇒ <u>"3.13.4 8 J x 18", page 283</u>	53	Yes	



Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.13.2 Wheel Allocation, Touareg, Type 7P and Type 7p, MY 10 through MY 11

Explanatory notes of indications on disc wheels, refer to ⇒ ["1.11.2 Disc Wheels, Identification", page 45](#) .

Wheel bolt tightening specifications, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; General Information .

Pitch circle diameter:	130
Number of wheel bolt holes:	5

3.13.3 7 1/2 J x 17

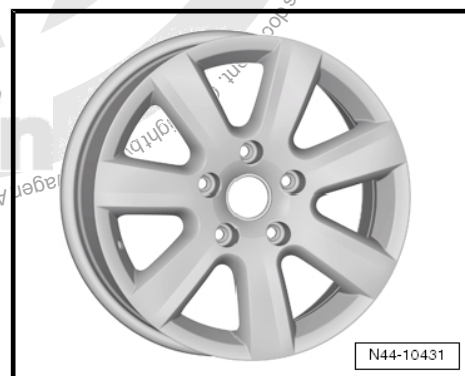


Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 281](#) .

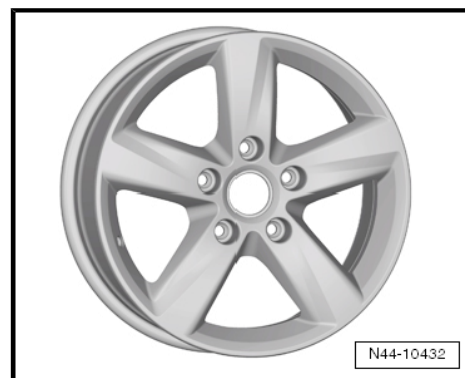
7P6 601 025 - wheel/tire combination. Refer to ⇒ [page 281](#)

Dimension:	7 1/2 J x 17
Offset in mm:	50
Wheel load in kg:	800



7P6 601 025 A - wheel/tire combination. Refer to ⇒ [page 281](#)

Dimension:	7 1/2 J x 17
Offset in mm:	50
Wheel load in kg:	800



3.13.4 8 J x 18



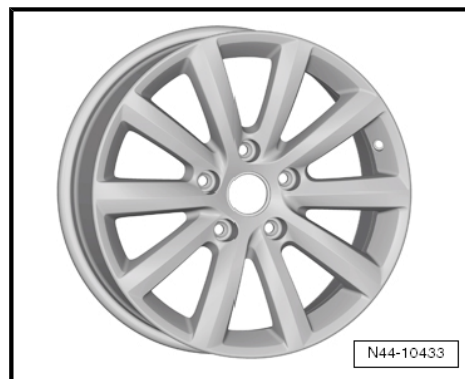
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 281](#) .



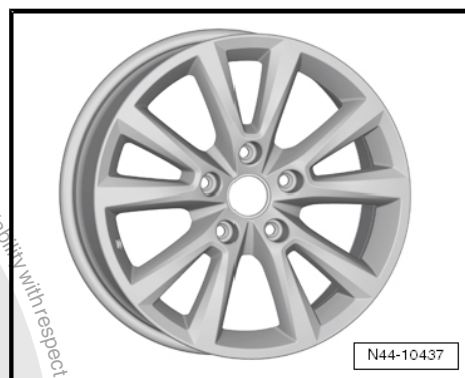
7P6 601,025 B - wheel/tire combination. Refer to ➤ page 281

Dimension:	8 J x 18
Offset in mm:	53
Wheel load in kg:	800



7P6 601 025 C - wheel/tire combination. Refer to ➤ page 281

Dimension:	8 J x 18
Offset in mm:	53
Wheel load in kg:	800



7P6 601,025 J - wheel/tire combination. Refer to ➤ page 281

Dimension:	8 J x 18
Offset in mm:	53
Wheel load in kg:	800



3.13.5 8 1/2 J x 19



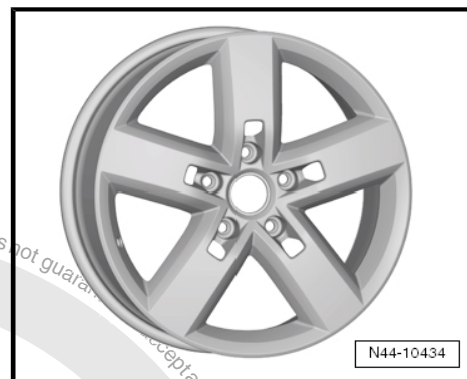
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 281 .



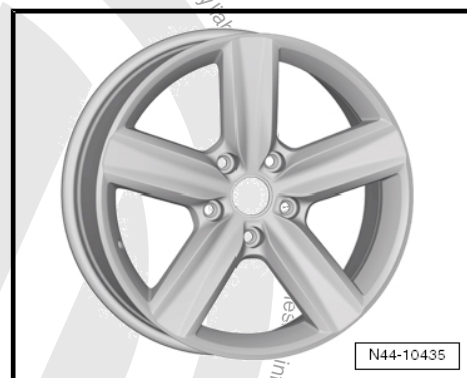
7P6 601 025 D - wheel/tire combination. Refer to ➤ page 282

Dimension:	8 ¹ / ₂ J x 19
Offset in mm:	59
Wheel load in kg:	800



7P6 601,025 K - wheel/tire combination. Refer to ➤ page 282

Dimension:	8 ¹ / ₂ J x 19
Offset in mm:	59
Wheel load in kg:	800



3.13.6 9 J x 20



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 281.

7P6 601 025 E - wheel/tire combination. Refer to ➤ page 282

Dimension:	9 J x 20
Offset in mm:	57
Wheel load in kg:	800



7P6 601 025 G - wheel/tire combination. Refer to ➤ page 282

Dimension:	9 J x 20
Offset in mm:	57
Wheel load in kg:	800





7P6 601 025 L - wheel/tire combination. Refer to ➤ page 282

Dimension:	9 J x 20
Offset in mm:	57
Wheel load in kg:	800



7P6 601 025 M - wheel/tire combination. Refer to ➤ page 282

Dimension:	9 J x 20
Offset in mm:	57
Wheel load in kg:	800



3.13.7 9 1/2 J x 21



Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 281 .

7P6 601,025 N - wheel/tire combination. Refer to ➤ page 282

Dimension:	9 1/2 J x 21
Offset in mm:	59
Wheel load in kg:	800



3.14 Touareg Hybrid, from MY 11

➤ "3.14.1 Touareg Hybrid, Type 7PH and Type 7pH, MY 11", page 287

➤ "3.14.2 Wheel Allocation, Touareg Hybrid, Type 7PH and Type 7pH, MY 11", page 288

➤ "3.14.3 8 J x 18", page 288

➤ "3.14.4 8 1/2 J x 19", page 289

General Information

Volkswagen vehicles are designed according to high safety standards. To keep it that way, it is recommended to use only



genuine Volkswagen replacement parts. These can be recognized by the VW Audi logo and by the part number. These parts are known to be reliable, safe and suitable.

Despite constant appraisal of the market, we cannot assess other products on these points, even where in isolated cases they have been passed by official inspectors or have been granted official approval. Therefore, we cannot assume any liability if these products are installed.



WARNING

Products from Volkswagen Original Replacement Parts and Votex Original Accessories may differ in regards to assembly requirements, tightening specifications, etc.

Always follow the respective assembly and operating instructions.

The wheel and tire combinations or retrofittings listed in the vehicle tables refer exclusively to Volkswagen original disc wheels. Release of wheel/tire combinations or retrofittings with disc wheels from the accessories trade is not possible with the enclosed approval certificate.



WARNING

When assembling disc wheels by Votex Original Accessories, assembly requirements and tightening specifications may deviate from those for disc wheels by Volkswagen Original Replacement Parts.

Therefore always pay attention to tightening specifications for wheel bolts as well as respective assembly and operating instructions.

3.14.1 Touareg Hybrid, Type 7PH and Type 7pH, MY 11

Supplement to parts certificate 8106807167

The parts certificate can be found in Volkswagen ServiceNet under Accessories/Tires, Wheels and Tires, Wheel and Tire Guide.

Type Approval Number for type 7PH: e1*2007/46*0403*00

Type Approval Number for type 7pH: DE*2007/46*0404*00

Overview

Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
V6 3.0L 245 kW Gasoline engine	Standard Tires	255/55 R 18,109V	8 J x 18 , refer to ⇒ "3.14.3 8 J x 18", page 288	53	Yes	General information about: ◆ Winter tires, refer to ⇒ "2.8 Winter Tires", page 85 ◆ Snow chains, re- fer to ⇒ "2.13 Snow Chains", page 89



Model/ Engine Performance	Tires	Tire Size	Disk Wheel	Off- set (ET) in mm	Snow Chains	Comments
	Modification	265/50 R 19,110V	8 ¹ / ₂ J x 19 , refer to ⇒ "3.14.4 81/2 J x 19", page 289	59	No	Volkswagen recommended tire brands: ♦ Summer tires, refer to ⇒ "1.15.15 Touareg Hybrid, from MY 11", page 66 ♦ All-season tires, refer to ⇒ "1.16.13 Touareg, from MY 2010", page 71 ♦ Winter tires, refer to ⇒ "1.17.14 Touareg, from MY 2010", page 77
	Winter Tires	255/55 R 18 109T/H/	8 J x 18, refer to ⇒ "3.14.3 8 J x 18", page 288	53	Yes	

Tire pressures can be found on the inside of the fuel tank flap or in the ⇒ Maintenance ; Booklet ; Tires, Checking Condition, Wear Pattern, Tire Pressure and Tread Depth .

3.14.2 Wheel Allocation, Touareg Hybrid, Type 7PH and Type 7pH, MY 11

Explanatory notes of indications on disc wheels, refer to
⇒ ["1.11.2 Disc Wheels, Identification", page 45](#) .

Wheel bolt tightening specifications, refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Specifications .

Pitch circle diameter:	130
Number of wheel bolt holes:	5

3.14.3 8 J x 18



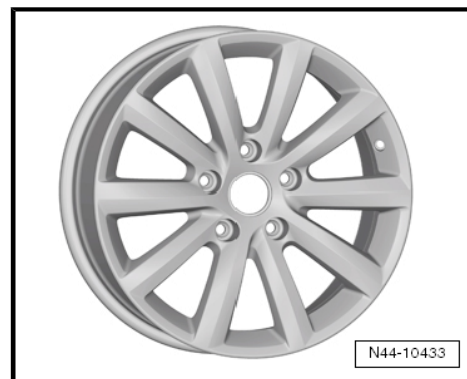
Caution

Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ⇒ [page 287](#) .



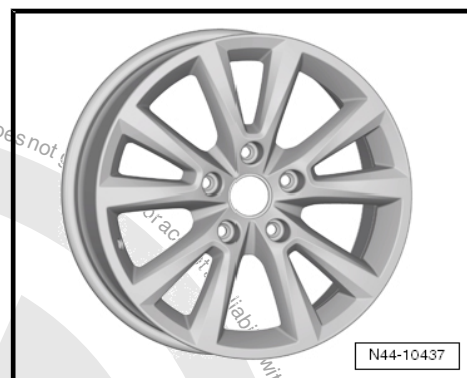
7P6 601,025 B - wheel/tire combination. Refer to ➤ page 287

Dimension:	8 J x 18
Offset in mm:	53
Wheel load in kg:	800



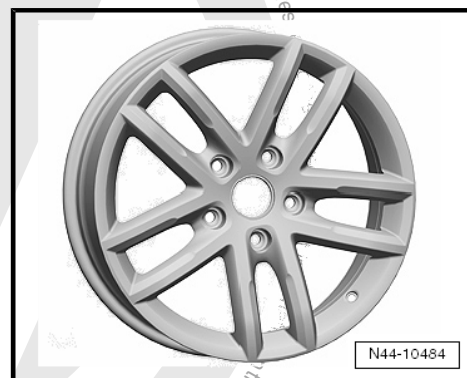
7P6 601 025 C - wheel/tire combination. Refer to ➤ page 287

Dimension:	8 J x 18
Offset in mm:	53
Wheel load in kg:	800



7P6 601,025 J - wheel/tire combination. Refer to ➤ page 287

Dimension:	8 J x 18
Offset in mm:	53
Wheel load in kg:	800



3.14.4 8 1/2 J x 19



Caution

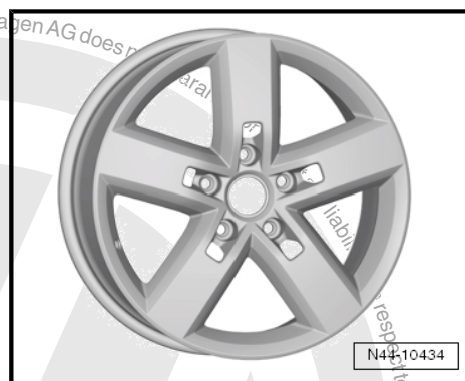
Pay attention to wheels/tires assignments for respective engine versions which are listed in the overview table. Refer to ➤ page 287.





7P6 601 025 D - wheel/tire combination. Refer to ➤ [page 288](#)

Dimension:	8 1/2 J x 19
Offset in mm:	59
Wheel load in kg:	800



7P6 601,025 K - wheel/tire combination. Refer to ➤ [page 288](#)

Dimension:	8 1/2 J x 19
Offset in mm:	59
Wheel load in kg:	800

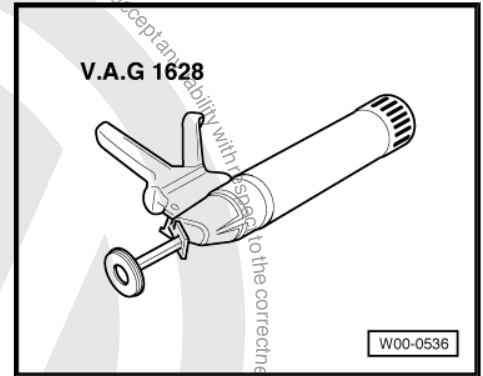




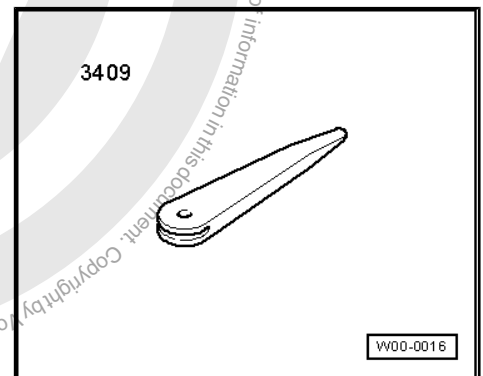
4 Special Tools

Special tools and workshop equipment required

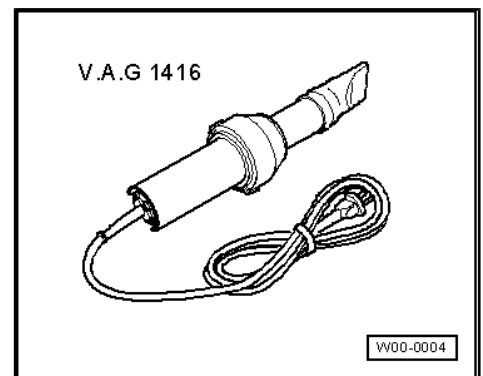
- ◆ Vehicle Diagnosis, Testing and Information System - VAS5051-
- ◆ Wheel Balancing Machine Centring System -VAS 5271-
- ◆ Vibration Control Tire Balancer -VAS 6230-
- ◆ Cartridge Gun -V.A.G 1628-



- ◆ Trim Removal Wedge -3409-



- ◆ Hot Air Blower -V.A.G 1416-



Edition 02.13.2012 FB

Cautions & Warnings

Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Volkswagen retailer or other qualified shop. We especially urge you to consult an authorized Volkswagen retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Volkswagen.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Volkswagen is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Volkswagen retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the VAG 1551 Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.

Cautions & Warnings

- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly; do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Volkswagen specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.
- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Volkswagen Service technicians should test, disassemble or service the airbag system.

Cautions & Warnings

- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Volkswagen Service technicians using the VAG 1551 Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

I have read and I understand these Cautions and Warnings.

